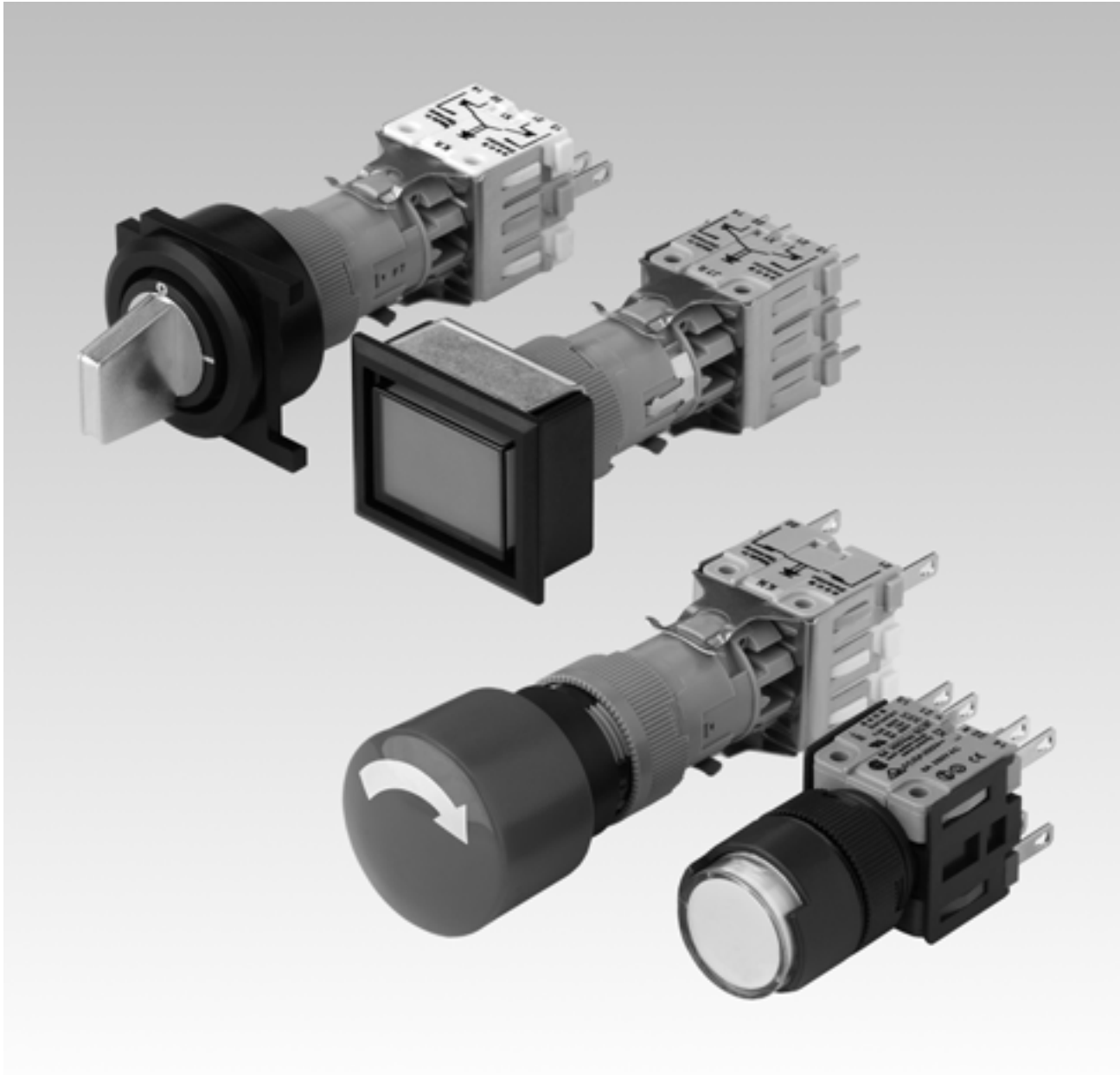




## Index

### Series Swisstac

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## SWISSTAC - Three crucial advantages!

Easy storage in minimum space  
Every SWISSTAC switch can be altered very simply any number of times, and afterwards added to, modified or adapted. This highly modular concept means that only a few subassemblies reducing storage costs.

## All connections on one plane

All the terminals are arranged at the same level, are clearly laid out and fully accessible even when in close-packed arrays. Three colours provide optical help to make connections easier.

## Ideal for switch interlock systems

SWISSTAC switches can be mechanically combined in many ways to form switch interlock systems and in fact in rows of up to 20 switches. This means that complicated protection and relay interlocks are unnecessary. Individual and irregular spacings between the switches of an array are no problem either.

## CE

Our products are marked with the internationally approved CE low-voltage safety standard.

## General information

Swisstac, a modularly constructed control switch system, offers the user a wide range of products: buzzers, illuminated pushbuttons and pushbuttons, indicators, emergency stop switches, push-pull illuminated switches, keylock switches and selector switches, as well as switch interlock systems in the front-facing protection classes IP 40 and IP 65.

The front dimensions of the switch units are: 18 mm dia., 18 x 18 mm, 24 mm dia., 24 x 24 mm. For flush mounting, dimensions 25 mm dia., 24 x 24 mm, 24 x 30 mm are also available.

## Construction

SWISSTAC switches are of modular construction and are divided into the following three groups:

- Front section: Man/switch interface and status indicator two-part lens for engraving, film insert or printing
- Intermediate section: Latching/ pulse facility, lamp holder, latch function
- Intermediate section with switching mechanism and lamp holder, which is available in two versions: T: 5.5 max., 1.2 W and midjet grooved T 1 3/4 max.

1.2 W.

- Terminal block: up to a max. of five switching elements can be joined together in one switch terminal block. Are supplied mounted serially on intermediate sections.

Can be disassembled easily for wiring.

## Marking

Engraved, printed film inlay see under 'Marking' page 667.

## Illumination

Perfect illumination of the lenses supplied in various colours is guaranteed by the incandescent lamps midjet grooved T 1 3/4 and T 5.5 (6-60V9).

Where supply voltages are over 60 V, a voltage-reduction element (ext. protective series resistor or capacitor) must be used. Because of high surface temperature, the protective series resistor may not be soldered direct onto the connections of the pushbuttons.

Multi-LED midjet grooved T 1 3/4 and T 5.5 (6, 12, 24, 48 V) are available in the colours red, yellow and green.

## Switch position indicator

When the pushbutton with latch function is operated, the lens latches in mechanically. The position of the lens makes the switch position evident at all the times.

## Keylock switches

Standard lock

1 Standard number is B2 300. We supply B2 300 without specifications of the lock numbers. Four further standard locks are B2 301 - B2 304. This additional designation should be quoted when ordering. A further 95 locks are available in or without passepartout version on request. 2 keys are supplied per keylock switch.

Spare keys for a standard lock can be ordered under Type no. 240-2001-00 (please quote lock number). Example: 240-200-00 B2 300.

## Emergency stop switch with key to unlock

Standard lock is B2 390. Four further standard locks are B2 391 - B2-394. When ordering this additional designation should be quoted. Spare keys for standard lock can be ordered under Type no. 240-3001-00 (please quote lock). Example: 240-3001-00 B2 390.

Two keys are supplied per emergency stop switch.

## Emergency Stop Switch, foolproof with key to unlock

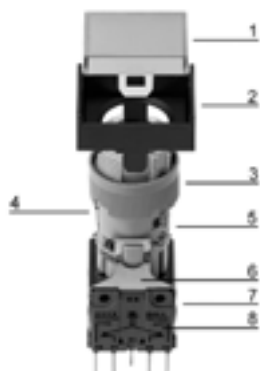
Kaba safety switch. Standard lock number is 1001. Spare keys can be ordered under Type no. 240.4001-00 1001.

2 keys are supplied per emergency stop switches.

All measurements in mm

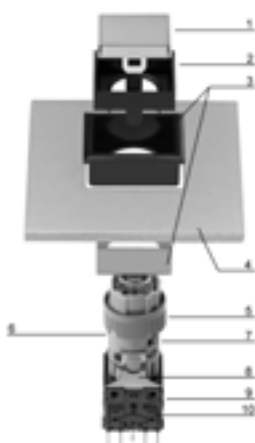
Technical specifications subject to modification.

## illuminated-/pushbutton



- 1 lens
- 2 front bezel
- 3 fixing nut
- 4 spring with pin for changing from maintained to momentary
- 5 intermediate section
- 6 holder for switching element
- 7 switching element block
- 8 switching element

## pushbutton-/illuminated pushbutton for flush mounting



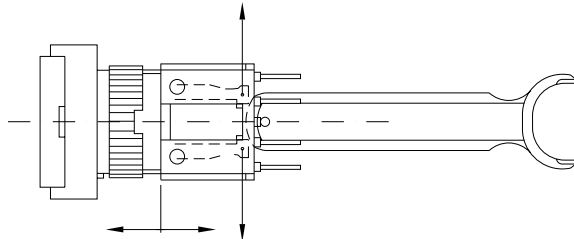
- 1 lens
- 2 front bezel
- 3 front bezel set f. fl. mounting
- 4 front panel
- 5 fixing nut
- 6 spring with pin f. changing from main to mom
- 7 intermediate section
- 8 holder f. switching element
- 9 switching element block
- 10 switching element

## illuminated-/pushbutton 35mm

The switch is mounted in a fascia or control panel in three steps:

1. Detach terminal block as in drawing, remove fixing nut
2. Insert switch from the front in fascia/control panel
3. Reassemble the switch in the reverse order

To detach terminal block



Note: Type-identification on legs of actuator

## illuminated-/pushbutton 55 - 70 mm

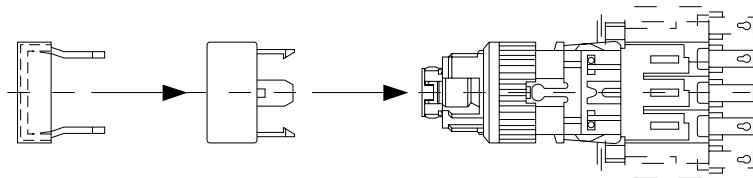
The switch is mounted in a fascia/control panel in two steps:

1. Insert switch from back side in fascia/control panel
2. Snap on bezel and tighten fixing nut

Lens

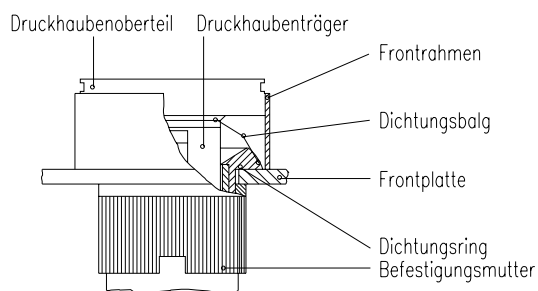
Bezel

Illuminated pushbutton



## illuminated-/pushbutton 55 - 70 mm sealing gland and -ring

The first time the button is pressed, the gland is forced into its groove and becomes effective.



## indicator 30 - 70 mm

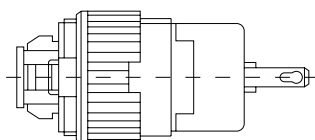
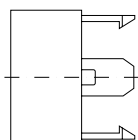
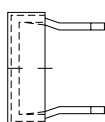
The indicator is mounted in a fascia/control panel in two steps:

1. Insert indicator from back side in fascia/control panel
2. Snap on bezel and tighten fixing nut

Lens

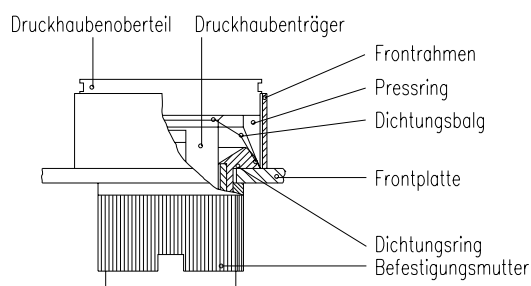
Bezel

Indicator



## indicator 30 - 70 mm sealing gland, -ring and press ring

The press ring is fitted between gland and lens. The seal is effective when the lens is snapped into place.



## emergency stop switch turn to release 55 - 70 mm

The switch is mounted in a fascia or control panel in three steps:

1. Detach front section just in released position, as in drawing
2. Insert switch from back side in fascia/control panel
3. Snap on front section and tighten fixing nut

### Important for IP 65

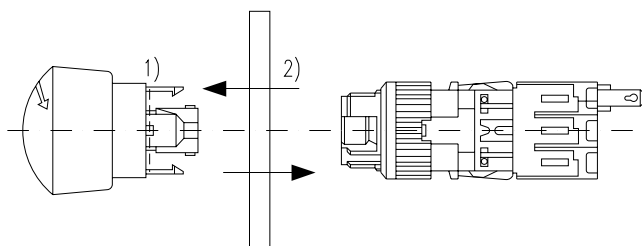
With models to IP 65, the sealing ring 1) is already fitted  
This must be removed if the SWISSTAC emergency  
Stop identity plate (IP 65 model) is used.

Sealing ring 2) is fitted as standard  
in models to IP 65.

Zero position

Identity plate

Wiring diagram



## emergency stop switch with key release 55 - 70 mm

The switch is mounted in a fascia or control panel in three steps:

1. Detach front section, just in released position, as in drawing, remove fixing nut
2. Insert switch from back side in fascia/control panel
3. Snap on front section and tighten fixing nut

### Important for IP 65

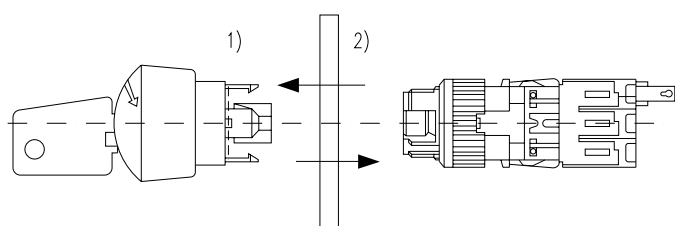
With models to IP 65, the sealing ring1) is already fitted  
This must be removed if the SWISSTAC emergency  
Stop identity plate (IP 65 model) is used.

Sealing ring2) is fitted as standard  
in models to IP 65.

Zero position

Identity plate

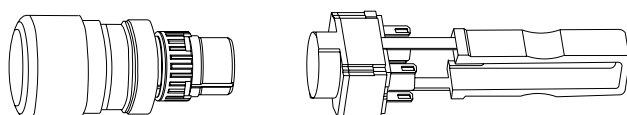
Wiring diagram



## emergency stop switch foolproof

Hint for mounting: the torque with which the fixing nut is tightened must not exceed 50 Ncm.

Hint for dismantling: dismantling of switching element just with dismantling tool.

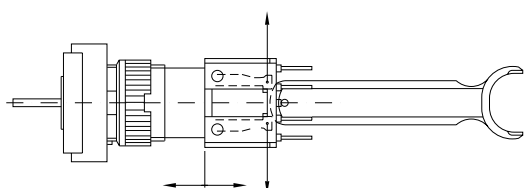


## keylock switch 45mm

The switch is mounted in a fascia or control panel in three steps:

1. Detach terminal block as in drawing, remove fixing nut
2. Insert switch from front side in fascia/control panel
3. Reassemble the switch in the reverse order

To detach terminal block



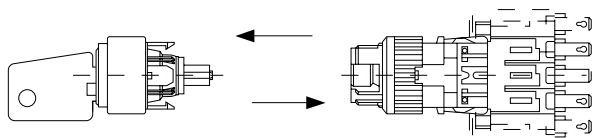
## keylock switch 55 mm

The switch is mounted in a fascia/control panel in three steps:

1. Remove front section as in drawing
2. Insert switch from back side in fascia/control panel
3. Snap on front section (see Note) and tighten fixing nut

Zero position

Wiring diagram



To assemble, the key must be at the zero position, the symbol **0** is at the top, and on the terminal block the circuit diagram is uppermost.

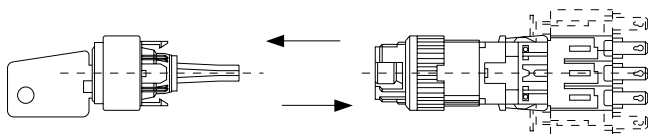
## keylock switch 70 mm

The switch is mounted in a fascia/control panel in three steps:

1. Remove front section as in drawing
2. Insert switch from back side in fascia/control panel
3. Snap on front section (see Note) and tighten fixing nut.

Zero position

Wiring diagram



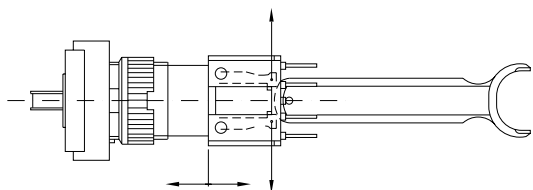
To assemble, the key must be at the zero position, the symbol **0** is at the top, and on the terminal block the circuit diagram is uppermost.

## selector switch 45 mm

The switch is mounted in a fascia or control panel in three steps:

1. Detach terminal block as in drawing, remove fixing nut
2. Insert switch from front side in fascia/control panel
3. Reassemble the switch in the reverse order

To detach terminal block





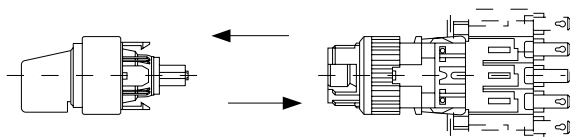
## selector switch 55 mm

The switch is mounted in a fascia/control panel in three steps:

1. Remove front section as in drawing
2. Insert switch from back side in fascia/control panel
3. Snap on front section (see Note) and tighten fixing nut

Zero position

Wiring diagram



To assemble, the lever must be at the zero position, the symbol **0** is as the top, and on the terminal block the circuit diagram is uppermost.

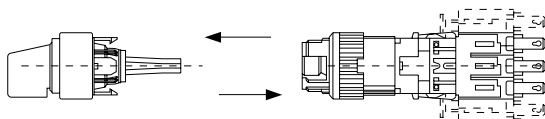
## selector switch 70 mm

The switch is mounted in a fascia/control panel in three steps:

1. Remove front section as in drawing
2. Insert switch from back side in fascia/control panel
3. Snap on front section (see Note) and tighten fixing nut

Zero position

Wiring diagram



To assemble, the lever must be at the zero position, the symbol **0** is at the top, and on the terminal block the circuit diagram is uppermost.

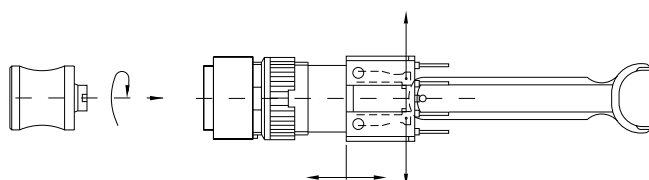
## push pull illuminated switch

The switch is mounted in a fascia or control panel in three steps:

1. Detach terminal block as in drawing, remove fixing nut
2. Insert switch from back side in fascia/control panel
3. Reassemble the switch in the reverse order

Push-Pull knob

To detach terminal block



Push-pull knob can be mounted in only one position. Zero position Wiring diagram

## buzzer 30 - 55 mm

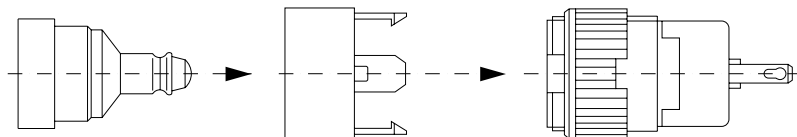
The alarmbuzzer is mounted in a fascia/control panel in two steps:

1. Insert alarmbuzzer from backside in fascia/control panel
2. snap on bezel and tighten fixing nut

buzzerelement

bezel

buzzerhousing



## indicator actuator 35 mm



- 🛒 lens for 35 mm page 622
- 🛒 lamp element block for 35 mm page 632
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634

|                                                   | degree of protection | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------|-------------------|---------------------|------------------|-------|
| indicator actuator 35 mm<br>lampholder MG T 1 3/4 | IP 40                | 690-6000-00           | 690-4000-00           | 690-2000-00           | 1               | 1                 | 1                   | 1                | 0,004 |
|                                                   | IP 65                | 690-6000-W0           | 690-4000-W0           | 690-2000-W0           | 1               | 1                 | 2                   | 1                | 0,005 |

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## indicator 30 - 70 mm

protection degree IP 40/IP 65 is determined by front bezel and lens



- 🛒 lens page 623
- 🛒 front bezel for illuminated-/pushbutton 55 - 70 mm and indicator 30 - 70 mm page 627
- 🛒 pressure ring page 630
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634
- 🛒 filament lamp T 5.5 page 634
- 🛒 LED T 5.5 page 635

|                      | mounting depth | connection method | lamp socket | part no.    | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|----------------------|----------------|-------------------|-------------|-------------|-----------------|-------------------|---------------------|------------------|-------|
| indicator 30 - 70 mm | 30 mm          | -                 | MG T 1 3/4  | 990-.000-K0 | 1               | 2                 | 3                   |                  | 0,004 |
|                      | 45 mm          | -                 | T 5.5       | 890-.000-K0 | 1               | 3                 | 3                   |                  | 0,006 |
|                      | 52 mm          | P                 | MG T 1 3/4  | 990-.000-0P | 1               | 4                 | 3                   | 1                | 0,007 |
|                      | 55 mm          | -                 | MG T 1 3/4  | 990-.000-00 | 1               | 5                 | 3                   |                  | 0,007 |
|                      | 67 mm          | P                 | T 5.5       | 890-.000-0P | 1               | 6                 | 3                   | 1                | 0,010 |
|                      | 70 mm          | -                 | T 5.5       | 890-.000-00 | 1               | 7                 | 3                   |                  | 0,010 |

connection method : soldering-/plug-in terminal = -, PCB terminal = P

The indicators 55 mm and 70 mm are as long as the corresponding illuminated pushbuttons and fit to the PCB plug-in base and multi-plug housing.  
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

pushbutton-/illuminated pushbutton actuator 35 mm



- 🛒 lens for 35 mm page 622
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634
- 🛒 snap-action switching element block for 35 mm page 631

|                                                                               | degree<br>of pro-<br>tection | switching action | <br>18 x 24 mm<br>Typ-Nr. | <br>18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|-------------------------------------------------------------------------------|------------------------------|------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|-------------------|---------------------|------------------|-------|
| pushbutton-/illuminated pushbutton actuator<br>35 mm<br>lampholder MG T 1 3/4 | IP 40                        | M                | 680-6000-00                                                                                                | 680-4000-00                                                                                                | 680-2000-00           | 2               | 1                 | 1                   | 1                | 0,004 |
|                                                                               |                              | MA               | 600-6000-00                                                                                                | 600-4000-00                                                                                                | 600-2000-00           | 3               | 1                 | 1                   | 1                | 0,004 |
|                                                                               | IP 65                        | M                | 680-6000-W0                                                                                                | 680-4000-W0                                                                                                | 680-2000-W0           | 2               | 1                 | 2                   | 1                | 0,005 |
|                                                                               |                              | MA               | 600-6000-W0                                                                                                | 600-4000-W0                                                                                                | 600-2000-W0           | 3               | 1                 | 2                   | 1                | 0,005 |

switching action : momentary action = M, maintained action = MA (changeable to momentary action, reversible)  
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## illuminated-/pushbutton 55 - 70 mm

protection degree IP 40/IP 65 is determined by front bezel and lens



🛒 lens page 623

🛒 front bezel for illuminated-/pushbutton 55 - 70 mm and indicator 30 - 70 mm page 627

🛒 filament lamp MG T 1 3/4 page 634

🛒 filament lamp T 5.5 page 634

🛒 LED T 5.5 page 635

|                                    | mounting depth | contacts    | switching action | connection method | lamp socket | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|------------------------------------|----------------|-------------|------------------|-------------------|-------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| illuminated-/pushbutton 55 - 70 mm | 52 mm          | 1 NC + 1 NO | MA               | P                 | MG T 1 3/4  | <b>901-.000-0P</b> | 4               | 8                 | 3                   | 1                | 0,013 |
|                                    |                | 2 NC + 2 NO | MA               | P                 | MG T 1 3/4  | <b>902-.000-0P</b> | 5               | 8                 | 3                   | 1                | 0,014 |
|                                    |                | 3 NC + 3 NO | MA               | P                 | MG T 1 3/4  | <b>903-.000-0P</b> | 6               | 8                 | 3                   | 1                | 0,014 |
|                                    |                | 4 NC + 4 NO | MA               | P                 | MG T 1 3/4  | <b>904-.000-0P</b> | 7               | 8                 | 3                   | 1                | 0,018 |
|                                    |                | 5 NC + 5 NO | MA               | P                 | MG T 1 3/4  | <b>905-.000-0P</b> | 8               | 8                 | 3                   | 1                | 0,021 |
|                                    | 55 mm          | 1 NC + 1 NO | MA               | -                 | MG T 1 3/4  | <b>901-.000-00</b> | 4               | 9                 | 3                   |                  | 0,013 |
|                                    |                | 2 NC + 2 NO | MA               | -                 | MG T 1 3/4  | <b>902-.000-00</b> | 5               | 9                 | 3                   |                  | 0,014 |
|                                    |                | 3 NC + 3 NO | MA               | -                 | MG T 1 3/4  | <b>903-.000-00</b> | 6               | 9                 | 3                   |                  | 0,015 |
|                                    |                | 4 NC + 4 NO | MA               | -                 | MG T 1 3/4  | <b>904-.000-00</b> | 7               | 9                 | 3                   |                  | 0,019 |
|                                    |                | 5 NC + 5 NO | MA               | -                 | MG T 1 3/4  | <b>905-.000-00</b> | 8               | 9                 | 3                   |                  | 0,022 |
|                                    | 67 mm          | 1 NC + 1 NO | MA               | P                 | T 5.5       | <b>801-.000-0P</b> | 4               | 10                | 3                   | 1                | 0,015 |
|                                    |                | 2 NC + 2 NO | MA               | P                 | T 5.5       | <b>802-.000-0P</b> | 5               | 10                | 3                   | 1                | 0,016 |
|                                    |                | 3 NC + 3 NO | MA               | P                 | T 5.5       | <b>803-.000-0P</b> | 6               | 10                | 3                   | 1                | 0,017 |
|                                    |                | 4 NC + 4 NO | MA               | P                 | T 5.5       | <b>804-.000-0P</b> | 7               | 10                | 3                   | 1                | 0,020 |
|                                    |                | 5 NC + 5 NO | MA               | P                 | T 5.5       | <b>805-.000-0P</b> | 8               | 10                | 3                   | 1                | 0,023 |
|                                    | 70 mm          | 1 NC + 1 NO | MA               | -                 | T 5.5       | <b>801-.000-00</b> | 4               | 11                | 3                   |                  | 0,015 |
|                                    |                | 2 NC + 2 NO | MA               | -                 | T 5.5       | <b>802-.000-00</b> | 5               | 11                | 3                   |                  | 0,016 |
|                                    |                | 3 NC + 3 NO | MA               | -                 | T 5.5       | <b>803-.000-00</b> | 6               | 11                | 3                   |                  | 0,017 |
|                                    |                | 4 NC + 4 NO | MA               | -                 | T 5.5       | <b>804-.000-00</b> | 7               | 11                | 3                   |                  | 0,021 |
|                                    |                | 5 NC + 5 NO | MA               | -                 | T 5.5       | <b>805-.000-00</b> | 8               | 11                | 3                   |                  | 0,024 |

contacts : normally closed = NC, normally open = NO

switching action : maintained action = MA (changeable to momentary action, reversible)

connection method : PCB terminal = P, soldering-/plug-in terminal = -

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## emergency stop switch 55 - 70 mm



🛒 label for emergency stop switch page 636

|                                                                                            | unlocking        | degree of protection | mounting depth | contacts | connection method | 24 mm dia.<br>Typ-Nr. | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|--------------------------------------------------------------------------------------------|------------------|----------------------|----------------|----------|-------------------|-----------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>emergency stop switch<br/>55 - 70 mm</b><br>according to VDE max. 2 NC<br>are permitted | twist to release | IP 40                | 52 mm          | 1 NC     | P                 | <b>951+2000-0P</b>    | 9               | 12                | 4                   | 1                | 0,018 |
|                                                                                            |                  |                      |                | 2 NC     | P                 | <b>952+2000-0P</b>    | 10              | 12                | 4                   | 1                | 0,019 |
|                                                                                            |                  |                      |                | 3 NC     | P                 | <b>953+2000-0P</b>    | 11              | 12                | 4                   | 1                | 0,020 |
|                                                                                            |                  |                      | 55 mm          | 1 NC     | -                 | <b>951+2000-00</b>    | 9               | 13                | 4                   |                  | 0,018 |
|                                                                                            |                  |                      |                | 2 NC     | -                 | <b>952+2000-00</b>    | 10              | 13                | 4                   |                  | 0,019 |
|                                                                                            |                  |                      |                | 3 NC     | -                 | <b>953+2000-00</b>    | 11              | 13                | 4                   |                  | 0,020 |
|                                                                                            |                  |                      | 67 mm          | 1 NC     | P                 | <b>851+2000-0P</b>    | 9               | 14                | 4                   | 1                | 0,021 |
|                                                                                            |                  |                      |                | 2 NC     | P                 | <b>852+2000-0P</b>    | 10              | 14                | 4                   | 1                | 0,022 |
|                                                                                            |                  |                      |                | 3 NC     | P                 | <b>853+2000-0P</b>    | 11              | 14                | 4                   | 1                | 0,023 |
|                                                                                            |                  |                      | 70 mm          | 1 NC     | -                 | <b>851+2000-00</b>    | 9               | 15                | 4                   |                  | 0,021 |
|                                                                                            |                  |                      |                | 2 NC     | -                 | <b>852+2000-00</b>    | 10              | 15                | 4                   |                  | 0,022 |
|                                                                                            |                  |                      |                | 3 NC     | -                 | <b>853+2000-00</b>    | 11              | 15                | 4                   |                  | 0,023 |
|                                                                                            |                  | IP 65                | 52 mm          | 1 NC     | P                 | <b>951+2000-WP</b>    | 9               | 12                | 5                   | 1                | 0,018 |
|                                                                                            |                  |                      |                | 2 NC     | P                 | <b>952+2000-WP</b>    | 10              | 12                | 5                   | 1                | 0,019 |
|                                                                                            |                  |                      |                | 3 NC     | P                 | <b>953+2000-WP</b>    | 11              | 12                | 5                   | 1                | 0,020 |
|                                                                                            |                  |                      | 55 mm          | 1 NC     | -                 | <b>951+2000-W0</b>    | 9               | 13                | 5                   |                  | 0,018 |
|                                                                                            |                  |                      |                | 2 NC     | -                 | <b>952+2000-W0</b>    | 10              | 13                | 5                   |                  | 0,019 |
|                                                                                            |                  |                      |                | 3 NC     | -                 | <b>953+2000-W0</b>    | 11              | 13                | 5                   |                  | 0,020 |
|                                                                                            |                  |                      | 67 mm          | 1 NC     | P                 | <b>851+2000-WP</b>    | 9               | 14                | 5                   | 1                | 0,021 |
|                                                                                            |                  |                      |                | 2 NC     | P                 | <b>852+2000-WP</b>    | 10              | 14                | 5                   | 1                | 0,022 |
|                                                                                            |                  |                      |                | 3 NC     | P                 | <b>853+2000-WP</b>    | 11              | 14                | 5                   | 1                | 0,023 |
|                                                                                            |                  |                      | 70 mm          | 1 NC     | -                 | <b>851+2000-W0</b>    | 9               | 15                | 5                   |                  | 0,021 |
|                                                                                            |                  |                      |                | 2 NC     | -                 | <b>852+2000-W0</b>    | 10              | 15                | 5                   |                  | 0,022 |
|                                                                                            |                  |                      |                | 3 NC     | -                 | <b>853+2000-W0</b>    | 11              | 15                | 5                   |                  | 0,023 |

Continued on next page

|                                                                                                                                         | unlocking      | degree of protection | mounting depth | contacts | connection method | 24 mm dia.<br>Typ-Nr. | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|----------------------|----------------|----------|-------------------|-----------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>emergency stop switch 55 - 70 mm</b><br>standard lock B2 390, other lock numbers on request according to VDE max. 2 NC are permitted | key to release | IP 40                | 52 mm          | 1 NC     | P                 | <b>961+2401-0P</b>    | 9               | 12                | 4                   | 1                | 0,030 |
|                                                                                                                                         |                |                      |                | 2 NC     | P                 | <b>962+2401-0P</b>    | 10              | 12                | 4                   | 1                | 0,031 |
|                                                                                                                                         |                |                      |                | 3 NC     | P                 | <b>963+2401-0P</b>    | 11              | 12                | 4                   | 1                | 0,032 |
|                                                                                                                                         |                |                      | 55 mm          | 1 NC     | -                 | <b>961+2401-00</b>    | 9               | 13                | 4                   |                  | 0,030 |
|                                                                                                                                         |                |                      |                | 2 NC     | -                 | <b>962+2401-00</b>    | 10              | 13                | 4                   |                  | 0,031 |
|                                                                                                                                         |                |                      |                | 3 NC     | -                 | <b>963+2401-00</b>    | 11              | 13                | 4                   |                  | 0,032 |
|                                                                                                                                         |                |                      | 67 mm          | 1 NC     | P                 | <b>861+2401-0P</b>    | 9               | 14                | 4                   | 1                | 0,033 |
|                                                                                                                                         |                |                      |                | 2 NC     | P                 | <b>862+2401-0P</b>    | 10              | 14                | 4                   | 1                | 0,034 |
|                                                                                                                                         |                |                      |                | 3 NC     | P                 | <b>863+2401-0P</b>    | 11              | 14                | 4                   | 1                | 0,035 |
|                                                                                                                                         |                |                      | 70 mm          | 1 NC     | -                 | <b>861+2401-00</b>    | 9               | 15                | 4                   |                  | 0,033 |
|                                                                                                                                         |                |                      |                | 2 NC     | -                 | <b>862+2401-00</b>    | 10              | 15                | 4                   |                  | 0,034 |
|                                                                                                                                         |                |                      |                | 3 NC     | -                 | <b>863+2401-00</b>    | 11              | 15                | 4                   |                  | 0,035 |
|                                                                                                                                         |                | IP 65                | 52 mm          | 1 NC     | P                 | <b>961+2401-WP</b>    | 9               | 12                | 5                   | 1                | 0,030 |
|                                                                                                                                         |                |                      |                | 2 NC     | P                 | <b>962+2401-WP</b>    | 10              | 12                | 5                   | 1                | 0,031 |
|                                                                                                                                         |                |                      |                | 3 NC     | P                 | <b>963+2401-WP</b>    | 11              | 12                | 5                   | 1                | 0,032 |
|                                                                                                                                         |                |                      | 55 mm          | 1 NC     | -                 | <b>961+2401-W0</b>    | 9               | 13                | 5                   |                  | 0,030 |
|                                                                                                                                         |                |                      |                | 2 NC     | -                 | <b>962+2401-W0</b>    | 10              | 13                | 5                   |                  | 0,031 |
|                                                                                                                                         |                |                      |                | 3 NC     | -                 | <b>963+2401-W0</b>    | 11              | 13                | 5                   |                  | 0,032 |
|                                                                                                                                         |                |                      | 67 mm          | 1 NC     | P                 | <b>861+2401-WP</b>    | 9               | 14                | 5                   | 1                | 0,033 |
|                                                                                                                                         |                |                      |                | 2 NC     | P                 | <b>862+2401-WP</b>    | 10              | 14                | 5                   | 1                | 0,034 |
|                                                                                                                                         |                |                      |                | 3 NC     | P                 | <b>863+2401-WP</b>    | 11              | 14                | 5                   | 1                | 0,035 |
|                                                                                                                                         |                |                      | 70 mm          | 1 NC     | -                 | <b>861+2401-W0</b>    | 9               | 15                | 5                   |                  | 0,033 |
|                                                                                                                                         |                |                      |                | 2 NC     | -                 | <b>862+2401-W0</b>    | 10              | 15                | 5                   |                  | 0,034 |
|                                                                                                                                         |                |                      |                | 3 NC     | -                 | <b>863+2401-W0</b>    | 11              | 15                | 5                   |                  | 0,035 |

contacts : 1 normally closed = 1 NC, normally closed = NC

connection method : PCB terminal = P, soldering-/plug-in terminal = -

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

emergency stop switch foolproof 41 mm

according to EN 418



label for emergency stop switch page 636

|                                          |                  |                      |                | contacts    | connection method | 27 mm dia.<br>Typ-Nr. | circuit drawing | technical drawing | mounting dimensions |       |
|------------------------------------------|------------------|----------------------|----------------|-------------|-------------------|-----------------------|-----------------|-------------------|---------------------|-------|
|                                          | unlocking        | degree of protection | mounting depth |             |                   |                       |                 |                   |                     |       |
| emergency stop switch<br>foolproof 41 mm | twist to release | IP 65                | 41 mm          | 1 NC        | -                 | 551-8000-W0           | 12              | 16                | 6                   | 0,025 |
|                                          |                  |                      |                | 1 NC + 1 NO | -                 | 553-8000-W0           | 13              | 16                | 6                   | 0,025 |
|                                          |                  |                      |                | 2 NC        | -                 | 552-8000-W0           | 14              | 16                | 6                   | 0,025 |
| standard lock 1001                       | key to release   | IP 65                | 41 mm          | 1 NC        | -                 | 561-8101-W0           | 12              | 16                | 6                   | 0,047 |
|                                          |                  |                      |                | 1 NC + 1 NO | -                 | 563-8101-W0           | 13              | 16                | 6                   | 0,047 |
|                                          |                  |                      |                | 2 NC        | -                 | 562-8101-W0           | 14              | 16                | 6                   | 0,047 |

contacts : 1 normally closed = 1 NC, normally closed = NC, normally open = NO  
connection method : soldering-/plug-in terminal = -  
Mounting hint: starting torque for fixing nut max. 50 Ncm  
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652



## pushbutton with mushroom-head cap 55 - 70 mm



mushroom-head cap page 625

front bezel for mushroom-head pushbutton 55 - 70 mm page 628

|                                                 | degree<br>of pro-<br>tection | moun-<br>ting<br>depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|-------------------------------------------------|------------------------------|------------------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| pushbutton with mushroom-head cap<br>55 - 70 mm | IP 40                        | 52 mm                  | 1 NC + 1 NO | maintained       | P                 | <b>901-.000-0P</b> | 15              | 17                | 7                   | 1                | 0,013 |
|                                                 |                              |                        | 2 NC + 2 NO | maintained       | P                 | <b>902-.000-0P</b> | 16              | 17                | 7                   | 1                | 0,014 |
|                                                 |                              |                        | 3 NC + 3 NO | maintained       | P                 | <b>903-.000-0P</b> | 17              | 17                | 7                   | 1                | 0,014 |
|                                                 |                              |                        | 4 NC + 4 NO | maintained       | P                 | <b>904-.000-0P</b> | 18              | 17                | 7                   | 1                | 0,018 |
|                                                 |                              |                        | 5 NC + 5 NO | maintained       | P                 | <b>905-.000-0P</b> | 19              | 17                | 7                   | 1                | 0,021 |
|                                                 |                              | 55 mm                  | 1 NC + 1 NO | maintained       | -                 | <b>901-.000-00</b> | 15              | 18                | 7                   |                  | 0,013 |
|                                                 |                              |                        | 2 NC + 2 NO | maintained       | -                 | <b>902-.000-00</b> | 16              | 18                | 7                   |                  | 0,014 |
|                                                 |                              |                        | 3 NC + 3 NO | maintained       | -                 | <b>903-.000-00</b> | 17              | 18                | 7                   |                  | 0,015 |
|                                                 |                              |                        | 4 NC + 4 NO | maintained       | -                 | <b>904-.000-00</b> | 18              | 18                | 7                   |                  | 0,019 |
|                                                 |                              |                        | 5 NC + 5 NO | maintained       | -                 | <b>905-.000-00</b> | 19              | 18                | 7                   |                  | 0,022 |
|                                                 |                              | 67 mm                  | 1 NC + 1 NO | maintained       | P                 | <b>801-.000-0P</b> | 15              | 19                | 7                   | 1                | 0,015 |
|                                                 |                              |                        | 2 NC + 2 NO | maintained       | P                 | <b>802-.000-0P</b> | 16              | 19                | 7                   | 1                | 0,016 |
|                                                 |                              |                        | 3 NC + 3 NO | maintained       | P                 | <b>803-.000-0P</b> | 17              | 19                | 7                   | 1                | 0,017 |
|                                                 |                              |                        | 4 NC + 4 NO | maintained       | P                 | <b>804-.000-0P</b> | 18              | 19                | 7                   | 1                | 0,020 |
|                                                 |                              |                        | 5 NC + 5 NO | maintained       | P                 | <b>805-.000-0P</b> | 19              | 19                | 7                   | 1                | 0,023 |
|                                                 |                              | 70 mm                  | 1 NC + 1 NO | maintained       | -                 | <b>801-.000-00</b> | 15              | 20                | 7                   |                  | 0,015 |
|                                                 |                              |                        | 2 NC + 2 NO | maintained       | -                 | <b>802-.000-00</b> | 16              | 20                | 7                   |                  | 0,016 |
|                                                 |                              |                        | 3 NC + 3 NO | maintained       | -                 | <b>803-.000-00</b> | 17              | 20                | 7                   |                  | 0,017 |
|                                                 |                              |                        | 4 NC + 4 NO | maintained       | -                 | <b>804-.000-00</b> | 18              | 20                | 7                   |                  | 0,021 |
|                                                 |                              |                        | 5 NC + 5 NO | maintained       | -                 | <b>805-.000-00</b> | 19              | 20                | 7                   |                  | 0,024 |

contacts : normally closed = NC, normally open = NO

switching action: maintained action = MA (changeable to momentary action, reversible)

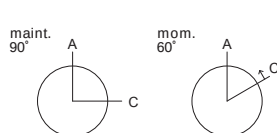
connection method : PCB terminal = P, soldering-/plug-in terminal = -

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## keylock switch 2 positions 45 - 70 mm



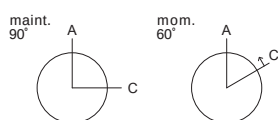
front cap for keylock-/selector switch 2 positions page 625



**keylock switch**  
**2 positions** 45 - 70 mm  
standard lock B2 300,  
other lock numbers on re-  
quest

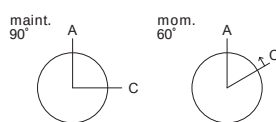
| degree of protec-<br>tion | mounting<br>depth | contacts    | switching action | connection<br>method | key<br>removable<br>in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------|-------------------|-------------|------------------|----------------------|------------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| IP 40                     | 42 mm             | 1 NC + 1 NO | M                | P                    | A                      | <b>781-.401-0P</b> | 21              | 21                | 8                   | 1                | 0,022 |
|                           |                   |             | MA               | P                    | A                      | <b>771-.401-0P</b> | 20              | 21                | 8                   | 1                | 0,022 |
|                           |                   |             |                  |                      | A+C                    | <b>761-.401-0P</b> | 20              | 21                | 8                   | 1                | 0,022 |
|                           |                   | 2 NC + 2 NO | M                | P                    | A                      | <b>782-.401-0P</b> | 23              | 21                | 8                   | 1                | 0,023 |
|                           |                   |             | MA               | P                    | A                      | <b>772-.401-0P</b> | 22              | 21                | 8                   | 1                | 0,023 |
|                           |                   |             |                  |                      | A+C                    | <b>762-.401-0P</b> | 22              | 21                | 8                   | 1                | 0,023 |
|                           | 45 mm             | 1 NC + 1 NO | M                | -                    | A                      | <b>781-.401-00</b> | 21              | 22                | 8                   |                  | 0,022 |
|                           |                   |             | MA               | -                    | A                      | <b>771-.401-00</b> | 20              | 22                | 8                   |                  | 0,022 |
|                           |                   |             |                  |                      | A+C                    | <b>761-.401-00</b> | 20              | 22                | 8                   |                  | 0,022 |
|                           |                   | 2 NC + 2 NO | M                | -                    | A                      | <b>782-.401-00</b> | 23              | 22                | 8                   |                  | 0,023 |
|                           |                   |             | MA               | -                    | A                      | <b>772-.401-00</b> | 22              | 22                | 8                   |                  | 0,023 |
|                           |                   |             |                  |                      | A+C                    | <b>762-.401-00</b> | 22              | 22                | 8                   |                  | 0,023 |
|                           | 52 mm             | 1 NC + 1 NO | M                | P                    | A                      | <b>931-.401-0P</b> | 25              | 23                | 8                   | 1                | 0,024 |
|                           |                   |             | MA               | P                    | A                      | <b>921-.401-0P</b> | 24              | 23                | 8                   | 1                | 0,024 |
|                           |                   |             |                  |                      | A+C                    | <b>911-.401-0P</b> | 24              | 23                | 8                   | 1                | 0,024 |
|                           |                   | 2 NC + 2 NO | M                | P                    | A                      | <b>932-.401-0P</b> | 23              | 23                | 8                   | 1                | 0,025 |
|                           |                   |             | MA               | P                    | A                      | <b>922-.401-0P</b> | 22              | 23                | 8                   | 1                | 0,025 |
|                           |                   |             |                  |                      | A+C                    | <b>912-.401-0P</b> | 22              | 23                | 8                   | 1                | 0,025 |
|                           |                   | 3 NC + 3 NO | M                | P                    | A                      | <b>933-.401-0P</b> | 27              | 23                | 8                   | 1                | 0,026 |
|                           |                   |             | MA               | P                    | A                      | <b>923-.401-0P</b> | 26              | 23                | 8                   | 1                | 0,026 |
|                           |                   |             |                  |                      | A+C                    | <b>913-.401-0P</b> | 26              | 23                | 8                   | 1                | 0,026 |
|                           |                   | 4 NC + 4 NO | M                | P                    | A                      | <b>934-.401-0P</b> | 29              | 23                | 8                   | 1                | 0,029 |
|                           |                   |             | MA               | P                    | A                      | <b>924-.401-0P</b> | 28              | 23                | 8                   | 1                | 0,029 |
|                           |                   |             |                  |                      | A+C                    | <b>914-.401-0P</b> | 28              | 23                | 8                   | 1                | 0,029 |
|                           |                   | 5 NC + 5 NO | M                | P                    | A                      | <b>935-.401-0P</b> | 31              | 23                | 8                   | 1                | 0,032 |
|                           |                   |             | MA               | P                    | A                      | <b>925-.401-0P</b> | 30              | 23                | 8                   | 1                | 0,032 |
|                           |                   |             |                  |                      | A+C                    | <b>915-.401-0P</b> | 30              | 23                | 8                   | 1                | 0,032 |

Continued on next page



|                                                                                                                  | degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout | kg    |
|------------------------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>keylock switch</b><br><b>2 positions</b> 45 - 70 mm<br>standard lock B2 300,<br>other lock numbers on request |                      | 55 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>931-.401-00</b> | 25              | 24                | 8                   |                  | 0,024 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>921-.401-00</b> | 24              | 24                | 8                   |                  | 0,024 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>911-.401-00</b> | 24              | 24                | 8                   |                  | 0,024 |
|                                                                                                                  |                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>932-.401-00</b> | 23              | 24                | 8                   |                  | 0,025 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>922-.401-00</b> | 22              | 24                | 8                   |                  | 0,025 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>912-.401-00</b> | 22              | 24                | 8                   |                  | 0,025 |
|                                                                                                                  |                      |                | 3 NC + 3 NO | M                | -                 | A                | <b>933-.401-00</b> | 27              | 24                | 8                   |                  | 0,027 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>923-.401-00</b> | 26              | 24                | 8                   |                  | 0,027 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>913-.401-00</b> | 26              | 24                | 8                   |                  | 0,027 |
|                                                                                                                  |                      |                | 4 NC + 4 NO | M                | -                 | A                | <b>934-.401-00</b> | 29              | 24                | 8                   |                  | 0,030 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>924-.401-00</b> | 28              | 24                | 8                   |                  | 0,030 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>914-.401-00</b> | 28              | 24                | 8                   |                  | 0,030 |
|                                                                                                                  |                      |                | 5 NC + 5 NO | M                | -                 | A                | <b>935-.401-00</b> | 31              | 24                | 8                   |                  | 0,033 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>925-.401-00</b> | 30              | 24                | 8                   |                  | 0,033 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>915-.401-00</b> | 30              | 24                | 8                   |                  | 0,033 |
|                                                                                                                  |                      | 67 mm          | 1 NC + 1 NO | M                | P                 | A                | <b>831-.401-0P</b> | 25              | 25                | 8                   | 1                | 0,026 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>821-.401-0P</b> | 24              | 25                | 8                   | 1                | 0,026 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>811-.401-0P</b> | 24              | 25                | 8                   | 1                | 0,026 |
|                                                                                                                  |                      |                | 2 NC + 2 NO | M                | P                 | A                | <b>832-.401-0P</b> | 23              | 25                | 8                   | 1                | 0,027 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>822-.401-0P</b> | 22              | 25                | 8                   | 1                | 0,027 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>812-.401-0P</b> | 22              | 25                | 8                   | 1                | 0,027 |
|                                                                                                                  |                      |                | 3 NC + 3 NO | M                | P                 | A                | <b>833-.401-0P</b> | 27              | 25                | 8                   | 1                | 0,028 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>823-.401-0P</b> | 26              | 25                | 8                   | 1                | 0,028 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>813-.401-0P</b> | 26              | 25                | 8                   | 1                | 0,028 |
|                                                                                                                  |                      |                | 4 NC + 4 NO | M                | P                 | A                | <b>834-.401-0P</b> | 29              | 25                | 8                   | 1                | 0,031 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>824-.401-0P</b> | 28              | 25                | 8                   | 1                | 0,031 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>814-.401-0P</b> | 28              | 25                | 8                   | 1                | 0,031 |
|                                                                                                                  |                      |                | 5 NC + 5 NO | M                | P                 | A                | <b>835-.401-0P</b> | 31              | 25                | 8                   | 1                | 0,034 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>825-.401-0P</b> | 30              | 25                | 8                   | 1                | 0,034 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>815-.401-0P</b> | 30              | 25                | 8                   | 1                | 0,034 |
|                                                                                                                  |                      | 70 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>831-.401-00</b> | 25              | 26                | 8                   |                  | 0,026 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>821-.401-00</b> | 24              | 26                | 8                   |                  | 0,026 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>811-.401-00</b> | 24              | 26                | 8                   |                  | 0,026 |
|                                                                                                                  |                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>832-.401-00</b> | 23              | 26                | 8                   |                  | 0,027 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>822-.401-00</b> | 22              | 26                | 8                   |                  | 0,027 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>812-.401-00</b> | 22              | 26                | 8                   |                  | 0,027 |
|                                                                                                                  |                      |                | 3 NC + 3 NO | M                | -                 | A                | <b>833-.401-00</b> | 27              | 26                | 8                   |                  | 0,029 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>823-.401-00</b> | 26              | 26                | 8                   |                  | 0,029 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>813-.401-00</b> | 26              | 26                | 8                   |                  | 0,029 |
|                                                                                                                  |                      |                | 4 NC + 4 NO | M                | -                 | A                | <b>834-.401-00</b> | 29              | 26                | 8                   |                  | 0,032 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>824-.401-00</b> | 28              | 26                | 8                   |                  | 0,032 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>814-.401-00</b> | 28              | 26                | 8                   |                  | 0,032 |
|                                                                                                                  |                      |                | 5 NC + 5 NO | M                | -                 | A                | <b>835-.401-00</b> | 31              | 26                | 8                   |                  | 0,035 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>825-.401-00</b> | 30              | 26                | 8                   |                  | 0,035 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>815-.401-00</b> | 30              | 26                | 8                   |                  | 0,035 |

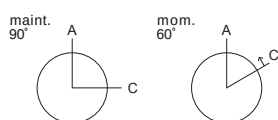
Continued on next page



**keylock switch**  
**2 positions** 45 - 70 mm  
 standard lock B2 300,  
 other lock numbers on re-  
 quest

| degree of protec-<br>tion | mounting<br>depth | contacts    | switching action | connection method | key<br>removable<br>in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout | kg    |
|---------------------------|-------------------|-------------|------------------|-------------------|------------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| IP 65                     | 42 mm             | 1 NC + 1 NO | M                | P                 | A                      | <b>781-.401-WP</b> | 21              | 21                | 9                   | 1                | 0,022 |
|                           |                   |             | MA               | P                 | A                      | <b>771-.401-WP</b> | 20              | 21                | 9                   | 1                | 0,022 |
|                           |                   |             |                  |                   | A+C                    | <b>761-.401-WP</b> | 20              | 21                | 9                   | 1                | 0,022 |
|                           |                   | 2 NC + 2 NO | M                | P                 | A                      | <b>782-.401-WP</b> | 23              | 21                | 9                   | 1                | 0,023 |
|                           |                   |             | MA               | P                 | A                      | <b>772-.401-WP</b> | 22              | 21                | 9                   | 1                | 0,023 |
|                           |                   |             |                  |                   | A+C                    | <b>762-.401-WP</b> | 22              | 21                | 9                   | 1                | 0,023 |
|                           | 45 mm             | 1 NC + 1 NO | M                | -                 | A                      | <b>781-.401-W0</b> | 21              | 22                | 9                   |                  | 0,022 |
|                           |                   |             | MA               | -                 | A                      | <b>771-.401-W0</b> | 20              | 22                | 9                   |                  | 0,022 |
|                           |                   |             |                  |                   | A+C                    | <b>761-.401-W0</b> | 20              | 22                | 9                   |                  | 0,022 |
|                           |                   | 2 NC + 2 NO | M                | -                 | A                      | <b>782-.401-W0</b> | 23              | 22                | 9                   |                  | 0,023 |
|                           |                   |             | MA               | -                 | A                      | <b>772-.401-W0</b> | 22              | 22                | 9                   |                  | 0,023 |
|                           |                   |             |                  |                   | A+C                    | <b>762-.401-W0</b> | 22              | 22                | 9                   |                  | 0,023 |
|                           | 52 mm             | 1 NC + 1 NO | M                | P                 | A                      | <b>931-.401-WP</b> | 25              | 23                | 9                   | 1                | 0,024 |
|                           |                   |             | MA               | P                 | A                      | <b>921-.401-WP</b> | 24              | 23                | 9                   | 1                | 0,024 |
|                           |                   |             |                  |                   | A+C                    | <b>911-.401-WP</b> | 24              | 23                | 9                   | 1                | 0,024 |
|                           |                   | 2 NC + 2 NO | M                | P                 | A                      | <b>932-.401-WP</b> | 23              | 23                | 9                   | 1                | 0,025 |
|                           |                   |             | MA               | P                 | A                      | <b>922-.401-WP</b> | 22              | 23                | 9                   | 1                | 0,025 |
|                           |                   |             |                  |                   | A+C                    | <b>912-.401-WP</b> | 22              | 23                | 9                   | 1                | 0,025 |
|                           |                   | 3 NC + 3 NO | M                | P                 | A                      | <b>933-.401-WP</b> | 27              | 23                | 9                   | 1                | 0,026 |
|                           |                   |             | MA               | P                 | A                      | <b>923-.401-WP</b> | 26              | 23                | 9                   | 1                | 0,026 |
|                           |                   |             |                  |                   | A+C                    | <b>913-.401-WP</b> | 26              | 23                | 9                   | 1                | 0,026 |
|                           |                   | 4 NC + 4 NO | M                | P                 | A                      | <b>934-.401-WP</b> | 29              | 23                | 9                   | 1                | 0,029 |
|                           |                   |             | MA               | P                 | A                      | <b>924-.401-WP</b> | 28              | 23                | 9                   | 1                | 0,029 |
|                           |                   |             |                  |                   | A+C                    | <b>914-.401-WP</b> | 28              | 23                | 9                   | 1                | 0,029 |
|                           |                   | 5 NC + 5 NO | M                | P                 | A                      | <b>935-.401-WP</b> | 31              | 23                | 9                   | 1                | 0,032 |
|                           |                   |             | MA               | P                 | A                      | <b>925-.401-WP</b> | 30              | 23                | 9                   | 1                | 0,032 |
|                           |                   |             |                  |                   | A+C                    | <b>915-.401-WP</b> | 30              | 23                | 9                   | 1                | 0,032 |
|                           | 55 mm             | 1 NC + 1 NO | M                | -                 | A                      | <b>931-.401-W0</b> | 25              | 24                | 9                   |                  | 0,024 |
|                           |                   |             | MA               | -                 | A                      | <b>921-.401-W0</b> | 24              | 24                | 9                   |                  | 0,024 |
|                           |                   |             |                  |                   | A+C                    | <b>911-.401-W0</b> | 24              | 24                | 9                   |                  | 0,024 |
|                           |                   | 2 NC + 2 NO | M                | -                 | A                      | <b>932-.401-W0</b> | 23              | 24                | 9                   |                  | 0,025 |
|                           |                   |             | MA               | -                 | A                      | <b>922-.401-W0</b> | 22              | 24                | 9                   |                  | 0,025 |
|                           |                   |             |                  |                   | A+C                    | <b>912-.401-W0</b> | 22              | 24                | 9                   |                  | 0,025 |
|                           |                   | 3 NC + 3 NO | M                | -                 | A                      | <b>933-.401-W0</b> | 27              | 24                | 9                   |                  | 0,027 |
|                           |                   |             | MA               | -                 | A                      | <b>923-.401-W0</b> | 26              | 24                | 9                   |                  | 0,027 |
|                           |                   |             |                  |                   | A+C                    | <b>913-.401-W0</b> | 26              | 24                | 9                   |                  | 0,027 |
|                           |                   | 4 NC + 4 NO | M                | -                 | A                      | <b>934-.401-W0</b> | 29              | 24                | 9                   |                  | 0,030 |
|                           |                   |             | MA               | -                 | A                      | <b>924-.401-W0</b> | 28              | 24                | 9                   |                  | 0,030 |
|                           |                   |             |                  |                   | A+C                    | <b>914-.401-W0</b> | 28              | 24                | 9                   |                  | 0,030 |
|                           |                   | 5 NC + 5 NO | M                | -                 | A                      | <b>935-.401-W0</b> | 31              | 24                | 9                   |                  | 0,033 |
|                           |                   |             | MA               | -                 | A                      | <b>925-.401-W0</b> | 30              | 24                | 9                   |                  | 0,033 |
|                           |                   |             |                  |                   | A+C                    | <b>915-.401-W0</b> | 30              | 24                | 9                   |                  | 0,033 |

Continued on next page



|                                                                                                                  | degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout | kg    |
|------------------------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>keylock switch</b><br><b>2 positions</b> 45 - 70 mm<br>standard lock B2 300,<br>other lock numbers on request |                      | 67 mm          | 1 NC + 1 NO | M                | P                 | A                | <b>831-.401-WP</b> | 25              | 25                | 9                   | 1                | 0,026 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>821-.401-WP</b> | 24              | 25                | 9                   | 1                | 0,026 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>811-.401-WP</b> | 24              | 25                | 9                   | 1                | 0,026 |
|                                                                                                                  |                      |                | 2 NC + 2 NO | M                | P                 | A                | <b>832-.401-WP</b> | 23              | 25                | 9                   | 1                | 0,027 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>822-.401-WP</b> | 22              | 25                | 9                   | 1                | 0,027 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>812-.401-WP</b> | 22              | 25                | 9                   | 1                | 0,027 |
|                                                                                                                  |                      |                | 3 NC + 3 NO | M                | P                 | A                | <b>833-.401-WP</b> | 27              | 25                | 9                   | 1                | 0,028 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>823-.401-WP</b> | 26              | 25                | 9                   | 1                | 0,028 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>813-.401-WP</b> | 26              | 25                | 9                   | 1                | 0,028 |
|                                                                                                                  |                      |                | 4 NC + 4 NO | M                | P                 | A                | <b>834-.401-WP</b> | 29              | 25                | 9                   | 1                | 0,031 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>824-.401-WP</b> | 28              | 25                | 9                   | 1                | 0,031 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>814-.401-WP</b> | 28              | 25                | 9                   | 1                | 0,031 |
|                                                                                                                  |                      |                | 5 NC + 5 NO | M                | P                 | A                | <b>835-.401-WP</b> | 31              | 25                | 9                   | 1                | 0,034 |
|                                                                                                                  |                      |                |             | MA               | P                 | A                | <b>825-.401-WP</b> | 30              | 25                | 9                   | 1                | 0,034 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>815-.401-WP</b> | 30              | 25                | 9                   | 1                | 0,034 |
|                                                                                                                  |                      | 70 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>831-.401-W0</b> | 25              | 26                | 9                   |                  | 0,026 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>821-.401-W0</b> | 24              | 26                | 9                   |                  | 0,026 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>811-.401-W0</b> | 24              | 26                | 9                   |                  | 0,026 |
|                                                                                                                  |                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>832-.401-W0</b> | 23              | 26                | 9                   |                  | 0,027 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>822-.401-W0</b> | 22              | 26                | 9                   |                  | 0,027 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>812-.401-W0</b> | 22              | 26                | 9                   |                  | 0,027 |
|                                                                                                                  |                      |                | 3 NC + 3 NO | M                | -                 | A                | <b>833-.401-W0</b> | 27              | 26                | 9                   |                  | 0,029 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>823-.401-W0</b> | 26              | 26                | 9                   |                  | 0,029 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>813-.401-W0</b> | 26              | 26                | 9                   |                  | 0,029 |
|                                                                                                                  |                      |                | 4 NC + 4 NO | M                | -                 | A                | <b>834-.401-W0</b> | 29              | 26                | 9                   |                  | 0,032 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>824-.401-W0</b> | 28              | 26                | 9                   |                  | 0,032 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>814-.401-W0</b> | 28              | 26                | 9                   |                  | 0,032 |
|                                                                                                                  |                      |                | 5 NC + 5 NO | M                | -                 | A                | <b>835-.401-W0</b> | 31              | 26                | 9                   |                  | 0,035 |
|                                                                                                                  |                      |                |             | MA               | -                 | A                | <b>825-.401-W0</b> | 30              | 26                | 9                   |                  | 0,035 |
|                                                                                                                  |                      |                |             |                  |                   | A+C              | <b>815-.401-W0</b> | 30              | 26                | 9                   |                  | 0,035 |

contacts : normally closed = NC, normally open = NO

switching action : maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

other key removable combination on request

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

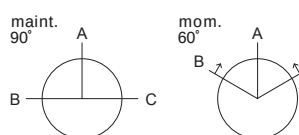
- at momentary position the overturning force is max. 60 Ncm.

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## keylock switch 3 positions 45 mm



front cap for keylock-/selector switch 3 positions page 626



|                                                                                                   | degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>keylock switch 3 positions</b><br>45 mm<br>standard lock B2 300, other lock numbers on request | IP 40                | 42 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | B+A+C            | <b>722-.401-0P</b> | 32              | 21                | 8                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - M        | P                 | A                | <b>732-.401-0P</b> | 33              | 21                | 8                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - MA       | P                 | A+C              | <b>752-.401-0P</b> | 35              | 21                | 8                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - M       | P                 | B+A              | <b>742-.401-0P</b> | 34              | 21                | 8                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - MA      | P                 | B+A+C            | <b>712-.401-0P</b> | 32              | 21                | 8                   | 1                | 0,023 |
|                                                                                                   |                      | 45 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | B+A+C            | <b>722-.401-00</b> | 32              | 22                | 8                   |                  | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - M        | -                 | A                | <b>732-.401-00</b> | 33              | 22                | 8                   |                  | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - MA       | -                 | A+C              | <b>752-.401-00</b> | 35              | 22                | 8                   |                  | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - M       | -                 | B+A              | <b>742-.401-00</b> | 34              | 22                | 8                   |                  | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - MA      | -                 | B+A+C            | <b>712-.401-00</b> | 32              | 22                | 8                   |                  | 0,023 |
|                                                                                                   | IP 65                | 42 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | B+A+C            | <b>722-.401-WP</b> | 32              | 21                | 9                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - M        | P                 | A                | <b>732-.401-WP</b> | 33              | 21                | 9                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - MA       | P                 | A+C              | <b>752-.401-WP</b> | 35              | 21                | 9                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - M       | P                 | B+A              | <b>742-.401-WP</b> | 34              | 21                | 9                   | 1                | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - MA      | P                 | B+A+C            | <b>712-.401-WP</b> | 32              | 21                | 9                   | 1                | 0,023 |
|                                                                                                   |                      | 45 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | B+A+C            | <b>722-.401-W0</b> | 32              | 22                | 9                   |                  | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - M        | -                 | A                | <b>732-.401-W0</b> | 33              | 22                | 9                   |                  | 0,023 |
|                                                                                                   |                      |                |             | M - 0 - MA       | -                 | A+C              | <b>752-.401-W0</b> | 35              | 22                | 9                   |                  | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - M       | -                 | B+A              | <b>742-.401-W0</b> | 34              | 22                | 9                   |                  | 0,023 |
|                                                                                                   |                      |                |             | MA - 0 - MA      | -                 | B+A+C            | <b>712-.401-W0</b> | 32              | 22                | 9                   |                  | 0,023 |

contacts : normally closed = NC, normally open = NO

switching action: maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

other key removable combination on request

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

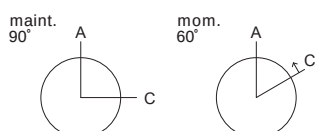
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## selector switch 2 positions 45 - 70 mm



🛒 front cap for keylock-/selector switch 2 positions page 625

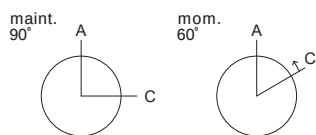
🛒 lever page 627



### selector switch 2 positions 45 - 70 mm

| degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| IP 40                | 42 mm          | 1 NC + 1 NO | M                | P                 | <b>781-.700-0P</b> | 37              | 27                | 10                  | 1                | 0,011 |
|                      |                |             | MA               | P                 | <b>761-.700-0P</b> | 36              | 27                | 10                  | 1                | 0,011 |
|                      |                | 2 NC + 2 NO | M                | P                 | <b>782-.700-0P</b> | 39              | 27                | 10                  | 1                | 0,012 |
|                      |                |             | MA               | P                 | <b>762-.700-0P</b> | 38              | 27                | 10                  | 1                | 0,012 |
|                      | 45 mm          | 1 NC + 1 NO | M                | -                 | <b>781-.700-00</b> | 37              | 28                | 10                  |                  | 0,011 |
|                      |                |             | MA               | -                 | <b>761-.700-00</b> | 36              | 28                | 10                  |                  | 0,011 |
|                      |                | 2 NC + 2 NO | M                | -                 | <b>782-.700-00</b> | 39              | 28                | 10                  |                  | 0,012 |
|                      |                |             | MA               | -                 | <b>762-.700-00</b> | 38              | 28                | 10                  |                  | 0,012 |
|                      | 52 mm          | 1 NC + 1 NO | M                | P                 | <b>931-.700-0P</b> | 41              | 29                | 10                  | 1                | 0,013 |
|                      |                |             | MA               | P                 | <b>911-.700-0P</b> | 40              | 29                | 10                  | 1                | 0,013 |
|                      |                | 2 NC + 2 NO | M                | P                 | <b>932-.700-0P</b> | 39              | 29                | 10                  | 1                | 0,014 |
|                      |                |             | MA               | P                 | <b>912-.700-0P</b> | 38              | 29                | 10                  | 1                | 0,014 |
|                      |                | 3 NC + 3 NO | M                | P                 | <b>933-.700-0P</b> | 43              | 29                | 10                  | 1                | 0,015 |
|                      |                |             | MA               | P                 | <b>913-.700-0P</b> | 42              | 29                | 10                  | 1                | 0,015 |
|                      |                | 4 NC + 4 NO | M                | P                 | <b>934-.700-0P</b> | 45              | 29                | 10                  | 1                | 0,018 |
|                      |                |             | MA               | P                 | <b>914-.700-0P</b> | 44              | 29                | 10                  | 1                | 0,018 |
|                      |                | 5 NC + 5 NO | M                | P                 | <b>935-.700-0P</b> | 47              | 29                | 10                  | 1                | 0,022 |
|                      |                |             | MA               | P                 | <b>915-.700-0P</b> | 46              | 29                | 10                  | 1                | 0,022 |
|                      | 55 mm          | 1 NC + 1 NO | M                | -                 | <b>931-.700-00</b> | 41              | 30                | 10                  |                  | 0,013 |
|                      |                |             | MA               | -                 | <b>911-.700-00</b> | 40              | 30                | 10                  |                  | 0,013 |
|                      |                | 2 NC + 2 NO | M                | -                 | <b>932-.700-00</b> | 39              | 30                | 10                  |                  | 0,014 |
|                      |                |             | MA               | -                 | <b>912-.700-00</b> | 38              | 30                | 10                  |                  | 0,014 |
|                      |                | 3 NC + 3 NO | M                | -                 | <b>933-.700-00</b> | 43              | 30                | 10                  |                  | 0,015 |
|                      |                |             | MA               | -                 | <b>913-.700-00</b> | 42              | 30                | 10                  |                  | 0,015 |
|                      |                | 4 NC + 4 NO | M                | -                 | <b>934-.700-00</b> | 45              | 30                | 10                  |                  | 0,019 |
|                      |                |             | MA               | -                 | <b>914-.700-00</b> | 44              | 30                | 10                  |                  | 0,019 |
|                      |                | 5 NC + 5 NO | M                | -                 | <b>935-.700-00</b> | 47              | 30                | 10                  |                  | 0,023 |
|                      |                |             | MA               | -                 | <b>915-.700-00</b> | 46              | 30                | 10                  |                  | 0,023 |
|                      | 67 mm          | 1 NC + 1 NO | M                | P                 | <b>831-.700-0P</b> | 41              | 31                | 10                  | 1                | 0,015 |
|                      |                |             | MA               | P                 | <b>811-.700-0P</b> | 40              | 31                | 10                  | 1                | 0,015 |
|                      |                | 2 NC + 2 NO | M                | P                 | <b>832-.700-0P</b> | 39              | 31                | 10                  | 1                | 0,016 |
|                      |                |             | MA               | P                 | <b>812-.700-0P</b> | 38              | 31                | 10                  | 1                | 0,016 |
|                      |                | 3 NC + 3 NO | M                | P                 | <b>833-.700-0P</b> | 43              | 31                | 10                  | 1                | 0,017 |
|                      |                |             | MA               | P                 | <b>813-.700-0P</b> | 42              | 31                | 10                  | 1                | 0,017 |
|                      |                | 4 NC + 4 NO | M                | P                 | <b>834-.700-0P</b> | 45              | 31                | 10                  | 1                | 0,020 |
|                      |                |             | MA               | P                 | <b>814-.700-0P</b> | 44              | 31                | 10                  | 1                | 0,020 |
|                      |                | 5 NC + 5 NO | M                | P                 | <b>835-.700-0P</b> | 47              | 31                | 10                  | 1                | 0,024 |
|                      |                |             | MA               | P                 | <b>815-.700-0P</b> | 46              | 31                | 10                  | 1                | 0,024 |

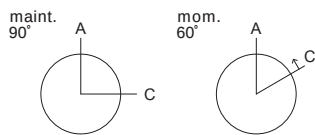
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|                                                  | degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|--------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>selector switch 2 positions</b><br>45 - 70 mm | IP 40                | 70 mm          | 1 NC + 1 NO | M                | -                 | <b>831-.700-00</b> | 41              | 32                | 10                  |                  | 0,015 |
|                                                  |                      |                |             | MA               | -                 | <b>811-.700-00</b> | 40              | 32                | 10                  |                  | 0,015 |
|                                                  |                      |                | 2 NC + 2 NO | M                | -                 | <b>832-.700-00</b> | 39              | 32                | 10                  |                  | 0,016 |
|                                                  |                      |                |             | MA               | -                 | <b>812-.700-00</b> | 38              | 32                | 10                  |                  | 0,016 |
|                                                  |                      |                | 3 NC + 3 NO | M                | -                 | <b>833-.700-00</b> | 43              | 32                | 10                  |                  | 0,017 |
|                                                  |                      |                |             | MA               | -                 | <b>813-.700-00</b> | 42              | 32                | 10                  |                  | 0,017 |
|                                                  |                      |                | 4 NC + 4 NO | M                | -                 | <b>834-.700-00</b> | 45              | 32                | 10                  |                  | 0,021 |
|                                                  |                      |                |             | MA               | -                 | <b>814-.700-00</b> | 44              | 32                | 10                  |                  | 0,021 |
|                                                  |                      |                | 5 NC + 5 NO | M                | -                 | <b>835-.700-00</b> | 47              | 32                | 10                  |                  | 0,025 |
|                                                  |                      |                |             | MA               | -                 | <b>815-.700-00</b> | 46              | 32                | 10                  |                  | 0,025 |
|                                                  | IP 65                | 42 mm          | 1 NC + 1 NO | M                | P                 | <b>781-.700-WP</b> | 37              | 27                | 11                  | 1                | 0,011 |
|                                                  |                      |                |             | MA               | P                 | <b>761-.700-WP</b> | 36              | 27                | 11                  | 1                | 0,011 |
|                                                  |                      |                | 2 NC + 2 NO | M                | P                 | <b>782-.700-WP</b> | 39              | 27                | 11                  | 1                | 0,012 |
|                                                  |                      |                |             | MA               | P                 | <b>762-.700-WP</b> | 38              | 27                | 11                  | 1                | 0,012 |
|                                                  |                      | 45 mm          | 1 NC + 1 NO | M                | -                 | <b>781-.700-W0</b> | 37              | 28                | 11                  |                  | 0,011 |
|                                                  |                      |                |             | MA               | -                 | <b>761-.700-W0</b> | 36              | 28                | 11                  |                  | 0,011 |
|                                                  |                      |                | 2 NC + 2 NO | M                | -                 | <b>782-.700-W0</b> | 39              | 28                | 11                  |                  | 0,012 |
|                                                  |                      |                |             | MA               | -                 | <b>762-.700-W0</b> | 38              | 28                | 11                  |                  | 0,012 |
|                                                  |                      | 52 mm          | 1 NC + 1 NO | M                | P                 | <b>931-.700-WP</b> | 41              | 29                | 11                  | 1                | 0,013 |
|                                                  |                      |                |             | MA               | P                 | <b>911-.700-WP</b> | 40              | 29                | 11                  | 1                | 0,013 |
|                                                  |                      |                | 2 NC + 2 NO | M                | P                 | <b>932-.700-WP</b> | 39              | 29                | 11                  | 1                | 0,014 |
|                                                  |                      |                |             | MA               | P                 | <b>912-.700-WP</b> | 38              | 29                | 11                  | 1                | 0,014 |
|                                                  |                      |                | 3 NC + 3 NO | M                | P                 | <b>933-.700-WP</b> | 43              | 29                | 11                  | 1                | 0,015 |
|                                                  |                      |                |             | MA               | P                 | <b>913-.700-WP</b> | 42              | 29                | 11                  | 1                | 0,015 |
|                                                  |                      |                | 4 NC + 4 NO | M                | P                 | <b>934-.700-WP</b> | 45              | 29                | 11                  | 1                | 0,018 |
|                                                  |                      |                |             | MA               | P                 | <b>914-.700-WP</b> | 44              | 29                | 11                  | 1                | 0,018 |
|                                                  |                      |                | 5 NC + 5 NO | M                | P                 | <b>935-.700-WP</b> | 47              | 29                | 11                  | 1                | 0,022 |
|                                                  |                      |                |             | MA               | P                 | <b>915-.700-WP</b> | 46              | 29                | 11                  | 1                | 0,022 |
|                                                  |                      | 55 mm          | 1 NC + 1 NO | M                | -                 | <b>931-.700-W0</b> | 41              | 30                | 11                  |                  | 0,013 |
|                                                  |                      |                |             | MA               | -                 | <b>911-.700-W0</b> | 40              | 30                | 11                  |                  | 0,013 |
|                                                  |                      |                | 2 NC + 2 NO | M                | -                 | <b>932-.700-W0</b> | 39              | 30                | 11                  |                  | 0,014 |
|                                                  |                      |                |             | MA               | -                 | <b>912-.700-W0</b> | 38              | 30                | 11                  |                  | 0,014 |
|                                                  |                      |                | 3 NC + 3 NO | M                | -                 | <b>933-.700-W0</b> | 43              | 30                | 11                  |                  | 0,015 |
|                                                  |                      |                |             | MA               | -                 | <b>913-.700-W0</b> | 42              | 30                | 11                  |                  | 0,015 |
|                                                  |                      |                | 4 NC + 4 NO | M                | -                 | <b>934-.700-W0</b> | 45              | 30                | 11                  |                  | 0,019 |
|                                                  |                      |                |             | MA               | -                 | <b>914-.700-W0</b> | 44              | 30                | 11                  |                  | 0,019 |
|                                                  |                      |                | 5 NC + 5 NO | M                | -                 | <b>935-.700-W0</b> | 47              | 30                | 11                  |                  | 0,023 |
|                                                  |                      |                |             | MA               | -                 | <b>915-.700-W0</b> | 46              | 30                | 11                  |                  | 0,023 |
|                                                  |                      | 67 mm          | 1 NC + 1 NO | M                | P                 | <b>831-.700-WP</b> | 41              | 31                | 11                  | 1                | 0,015 |
|                                                  |                      |                |             | MA               | P                 | <b>811-.700-WP</b> | 40              | 31                | 11                  | 1                | 0,015 |
|                                                  |                      |                | 2 NC + 2 NO | M                | P                 | <b>832-.700-WP</b> | 39              | 31                | 11                  | 1                | 0,016 |
|                                                  |                      |                |             | MA               | P                 | <b>812-.700-WP</b> | 38              | 31                | 11                  | 1                | 0,016 |
|                                                  |                      |                | 3 NC + 3 NO | M                | P                 | <b>833-.700-WP</b> | 43              | 31                | 11                  | 1                | 0,017 |
|                                                  |                      |                |             | MA               | P                 | <b>813-.700-WP</b> | 42              | 31                | 11                  | 1                | 0,017 |
|                                                  |                      |                | 4 NC + 4 NO | M                | P                 | <b>834-.700-WP</b> | 45              | 31                | 11                  | 1                | 0,020 |
|                                                  |                      |                |             | MA               | P                 | <b>814-.700-WP</b> | 44              | 31                | 11                  | 1                | 0,020 |
|                                                  |                      |                | 5 NC + 5 NO | M                | P                 | <b>835-.700-WP</b> | 47              | 31                | 11                  | 1                | 0,024 |
|                                                  |                      |                |             | MA               | P                 | <b>815-.700-WP</b> | 46              | 31                | 11                  | 1                | 0,024 |

Continued on next page





|                                                  | degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|--------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>selector switch 2 positions</b><br>45 - 70 mm | IP 65                | 70 mm          | 1 NC + 1 NO | M                | -                 | <b>831-.700-W0</b> | 41              | 32                | 11                  |                  | 0,015 |
|                                                  |                      |                |             | MA               | -                 | <b>811-.700-W0</b> | 40              | 32                | 11                  |                  | 0,015 |
|                                                  |                      |                | 2 NC + 2 NO | M                | -                 | <b>832-.700-W0</b> | 39              | 32                | 11                  |                  | 0,016 |
|                                                  |                      |                |             | MA               | -                 | <b>812-.700-W0</b> | 38              | 32                | 11                  |                  | 0,016 |
|                                                  |                      |                | 3 NC + 3 NO | M                | -                 | <b>833-.700-W0</b> | 43              | 32                | 11                  |                  | 0,017 |
|                                                  |                      |                |             | MA               | -                 | <b>813-.700-W0</b> | 42              | 32                | 11                  |                  | 0,017 |
|                                                  |                      |                | 4 NC + 4 NO | M                | -                 | <b>834-.700-W0</b> | 45              | 32                | 11                  |                  | 0,021 |
|                                                  |                      |                |             | MA               | -                 | <b>814-.700-W0</b> | 44              | 32                | 11                  |                  | 0,021 |
|                                                  |                      |                | 5 NC + 5 NO | M                | -                 | <b>835-.700-W0</b> | 47              | 32                | 11                  |                  | 0,025 |
|                                                  |                      |                |             | MA               | -                 | <b>815-.700-W0</b> | 46              | 32                | 11                  |                  | 0,025 |

contacts : normally closed = NC, normally open = NO

switching action : maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

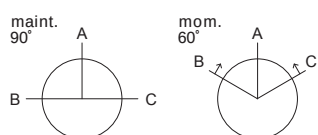
hint:

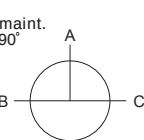
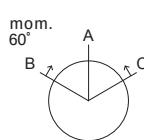
- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

 lever page 627



| <div><div><div><div>maint.<br/>90°</div><div></div></div><div><div>mom.<br/>60°</div><div></div></div></div></div> | degree of protection | mounting depth | contacts    | switching action | connection method | part no.          |                 |                   |                     |                  |       |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|-------------------|-----------------|-------------------|---------------------|------------------|-------|-------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                     |                      |                |             |                  |                   |                   | circuit drawing | technical drawing | mounting dimensions | component layout |       |                                                                                     |
| selector switch 3 positions<br>45 mm                                                                                                                                                                                                                                                | IP 40                | 42 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | <b>722-700-0P</b> | 48              | 27                | 10                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - M        | P                 | <b>732-700-0P</b> | 49              | 27                | 10                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - MA       | P                 | <b>752-700-0P</b> | 51              | 27                | 10                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - M       | P                 | <b>742-700-0P</b> | 50              | 27                | 10                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - MA      | P                 | <b>712-700-0P</b> | 48              | 27                | 10                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      | 45 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | <b>722-700-00</b> | 48              | 28                | 10                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - M        | -                 | <b>732-700-00</b> | 49              | 28                | 10                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - MA       | -                 | <b>752-700-00</b> | 51              | 28                | 10                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - M       | -                 | <b>742-700-00</b> | 50              | 28                | 10                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - MA      | -                 | <b>712-700-00</b> | 48              | 28                | 10                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     | IP 65                | 42 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | <b>722-700-WP</b> | 48              | 27                | 11                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - M        | P                 | <b>732-700-WP</b> | 49              | 27                | 11                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - MA       | P                 | <b>752-700-WP</b> | 51              | 27                | 11                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - M       | P                 | <b>742-700-WP</b> | 50              | 27                | 11                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - MA      | P                 | <b>712-700-WP</b> | 48              | 27                | 11                  | 1                | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      | 45 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | <b>722-700-W0</b> | 48              | 28                | 11                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - M        | -                 | <b>732-700-W0</b> | 49              | 28                | 11                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | M - 0 - MA       | -                 | <b>752-700-W0</b> | 51              | 28                | 11                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - M       | -                 | <b>742-700-W0</b> | 50              | 28                | 11                  |                  | 0,012 |                                                                                     |
|                                                                                                                                                                                                                                                                                     |                      |                |             | MA - 0 - MA      | -                 | <b>712-700-W0</b> | 48              | 28                | 11                  |                  | 0,012 |                                                                                     |

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## buzzer 30 - 55 mm



🛒 buzzer element page 627

🛒 front bezel for buzzer 30 - 55 mm page 628

|                          | degree of protection | mounting depth | connection method | buzzer socket | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|--------------------------|----------------------|----------------|-------------------|---------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>buzzer 30 - 55 mm</b> | IP 40                | 30 mm          | -                 | MG T 1 3/4    | <b>970-.000-K0</b> | 52              | 2                 | 12                  |                  | 0,004 |
|                          |                      | 52 mm          | P                 | MG T 1 3/4    | <b>970-.000-0P</b> | 52              | 4                 | 12                  | 1                | 0,007 |
|                          |                      | 55 mm          | -                 | MG T 1 3/4    | <b>970-.000-00</b> | 52              | 5                 | 12                  |                  | 0,007 |

connection method : soldering-/plug-in terminal = -, PCB terminal = P

the buzzer 55 mm is as long as the corresponding illuminated pushbutton and fits to the PCB plug-in base and multi plug housing

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## push-pull illuminated switch 45 mm



🛒 push-pull knob page 627

🛒 filament lamp MG T 1 3/4 page 634

🛒 LED MG T 1 3/4 page 634

|                                                                           | mounting depth | contacts    | switching action | connection method | colour of front bezel | 18 mm dia. Typ-Nr. | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------------------------------------|----------------|-------------|------------------|-------------------|-----------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>push-pull illuminated switch 45 mm</b><br>IP 40, lampholder MG T 1 3/4 | 42 mm          | 2 NC + 2 NO | M - 0 - M        | P                 | grey                  | <b>792-1000-0P</b> | 53              | 33                | 13                  | 1                | 0,015 |
|                                                                           |                |             |                  |                   | black                 | <b>792-2000-0P</b> | 53              | 33                | 13                  | 1                | 0,015 |
|                                                                           | 45 mm          | 2 NC + 2 NO | M - 0 - M        | -                 | grey                  | <b>792-1000-00</b> | 53              | 34                | 13                  |                  | 0,015 |
|                                                                           |                |             |                  |                   | black                 | <b>792-2000-00</b> | 53              | 34                | 13                  |                  | 0,015 |

contacts : normally closed = NC, normally open = NO

switching action: maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

indicator actuator 41-44 mm for flush mounting



- 🛒 lens for 35 mm page 622
- 🛒 front bezel-set for flush mounting page 628
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634
- 🛒 lamp element block for 35 mm page 632

|                                                                          | degree of protection | a<br>24 x 30 mm<br>part no. | b<br>24 x 24 mm<br>part no. | 25 mm dia.<br>part no. | circuit drawing | technical drawing | mounting dimension | components layout |       |
|--------------------------------------------------------------------------|----------------------|-----------------------------|-----------------------------|------------------------|-----------------|-------------------|--------------------|-------------------|-------|
| indicator actuator 41-44 mm for flush mounting<br>lamp socket MG T 1 3/4 | IP 40                | 690-6000-00                 | 690-4000-00                 | 690-2000-00            | 1               | 35                | 14                 | -                 | 0,004 |
|                                                                          | IP 65                | 690-6000-W0                 | 690-4000-W0                 | 690-2000-W0            | 1               | 35                | 14                 | -                 | 0,005 |

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652

## indicator for flush mounting 39 - 79 mm

protection degree IP 40



- 🛒 lens page 623
- 🛒 front bezel for indicator 39 - 79 mm page 627
- 🛒 front bezel-set for flush mounting page 628
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634
- 🛒 filament lamp T 5.5 page 634
- 🛒 LED T 5.5 page 635

|                                                | mounting depth | connection method | lamp socket | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout | PCB   |
|------------------------------------------------|----------------|-------------------|-------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>indicator for flush mounting 39 - 79 mm</b> | 39 mm          | -                 | MG T 1 3/4  | <b>990-.000-K0</b> | 1               | 36                | 14                  |                  | 0,004 |
|                                                | 54 mm          | -                 | T 5.5       | <b>890-.000-K0</b> | 1               | 37                | 14                  |                  | 0,006 |
|                                                | 61 mm          | P                 | MG T 1 3/4  | <b>990-.000-0P</b> | 1               | 38                | 14                  | 1                | 0,007 |
|                                                | 64 mm          | -                 | MG T 1 3/4  | <b>990-.000-00</b> | 1               | 39                | 14                  |                  | 0,007 |
|                                                | 76 mm          | P                 | T 5.5       | <b>890-.000-0P</b> | 1               | 40                | 14                  | 1                | 0,010 |
|                                                | 79 mm          | -                 | T 5.5       | <b>890-.000-00</b> | 1               | 41                | 14                  |                  | 0,010 |

connection method : soldering-/plug-in terminal = -, PCB terminal = P

The indicators 55 mm and 70 mm are as long as the corresponding illuminated pushbuttons and fit to the PCB plug-in base and multi-plug housing.  
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

illuminated-/pushbutton actuator 41-44 mm for flush mounting



- 🛒 lens page 623
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634
- 🛒 snap-action switching element block for 35 mm page 631

|                                                                 | degree of protection | switching action | component layout | 24 x 30 mm<br>Typ-Nr. | 24 x 24 mm<br>Typ-Nr. | 25 mm dia.<br>Typ-Nr. | circuit drawing | technical drawing | mounting dimensions |       |
|-----------------------------------------------------------------|----------------------|------------------|------------------|-----------------------|-----------------------|-----------------------|-----------------|-------------------|---------------------|-------|
| illuminated-/pushbutton actuator<br>41-44 mm for flush mounting | IP 40                | M                |                  |                       |                       | 680-2000-00           | 54              | 35                | 14                  | 0,004 |
|                                                                 |                      |                  |                  |                       | 680-4000-00           |                       | 54              | 35                | 14                  | 0,004 |
|                                                                 |                      |                  | 680-6000-00      |                       |                       |                       | 54              | 35                | 14                  | 0,004 |
|                                                                 |                      | MA (M)           |                  |                       |                       | 600-2000-00           | 55              | 35                | 14                  | 0,004 |
|                                                                 |                      |                  |                  |                       | 600-4000-00           |                       | 55              | 35                | 14                  | 0,004 |
|                                                                 |                      |                  | 600-6000-00      |                       |                       |                       | 55              | 35                | 14                  | 0,004 |
|                                                                 | IP 65                | M                |                  |                       |                       | 680-2000-W0           | 54              | 35                | 14                  | 0,005 |
|                                                                 |                      |                  |                  |                       | 680-4000-W0           |                       | 54              | 35                | 14                  | 0,005 |
|                                                                 |                      |                  | 680-6000-W0      |                       |                       |                       | 54              | 35                | 14                  | 0,005 |
|                                                                 |                      | MA (M)           |                  |                       |                       | 600-2000-W0           | 55              | 35                | 14                  | 0,005 |
|                                                                 |                      |                  |                  |                       | 600-4000-W0           |                       | 55              | 35                | 14                  | 0,005 |
|                                                                 |                      |                  | 600-6000-W0      |                       |                       |                       | 55              | 35                | 14                  | 0,005 |

switching action : momentary action = M, maintained action = MA  
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652

## pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm

protection degree IP 40



- 🛒 lens page 623
- 🛒 front bezel for illuminated-/pushbutton 61 - 79 mm page 627
- 🛒 front bezel-set for flush mounting page 628
- 🛒 filament lamp MG T 1 3/4 page 634
- 🛒 LED MG T 1 3/4 page 634
- 🛒 filament lamp T 5.5 page 634
- 🛒 LED T 5.5 page 635

|                                                                         | mounting depth | contacts    | switching action | connection method | lamp socket | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|-------------------------------------------------------------------------|----------------|-------------|------------------|-------------------|-------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm</b> | 61 mm          | 1 NC + 1 NO | maintained       | P                 | MG T 1 3/4  | <b>901-.000-0P</b> | 4               | 42                | 14                  | 1                | 0,013 |
|                                                                         |                | 2 NC + 2 NO | maintained       | P                 | MG T 1 3/4  | <b>902-.000-0P</b> | 5               | 42                | 14                  | 1                | 0,014 |
|                                                                         |                | 3 NC + 3 NO | maintained       | P                 | MG T 1 3/4  | <b>903-.000-0P</b> | 6               | 42                | 14                  | 1                | 0,014 |
|                                                                         |                | 4 NC + 4 NO | maintained       | P                 | MG T 1 3/4  | <b>904-.000-0P</b> | 7               | 42                | 14                  | 1                | 0,018 |
|                                                                         |                | 5 NC + 5 NO | maintained       | P                 | MG T 1 3/4  | <b>905-.000-0P</b> | 8               | 42                | 14                  | 1                | 0,021 |
|                                                                         | 64 mm          | 1 NC + 1 NO | maintained       | -                 | MG T 1 3/4  | <b>901-.000-00</b> | 4               | 43                | 14                  |                  | 0,013 |
|                                                                         |                | 2 NC + 2 NO | maintained       | -                 | MG T 1 3/4  | <b>902-.000-00</b> | 5               | 43                | 14                  |                  | 0,014 |
|                                                                         |                | 3 NC + 3 NO | maintained       | -                 | MG T 1 3/4  | <b>903-.000-00</b> | 6               | 43                | 14                  |                  | 0,015 |
|                                                                         |                | 4 NC + 4 NO | maintained       | -                 | MG T 1 3/4  | <b>904-.000-00</b> | 7               | 43                | 14                  |                  | 0,019 |
|                                                                         |                | 5 NC + 5 NO | maintained       | -                 | MG T 1 3/4  | <b>905-.000-00</b> | 8               | 43                | 14                  |                  | 0,022 |
|                                                                         | 76 mm          | 1 NC + 1 NO | maintained       | P                 | T 5.5       | <b>801-.000-0P</b> | 4               | 44                | 14                  | 1                | 0,015 |
|                                                                         |                | 2 NC + 2 NO | maintained       | P                 | T 5.5       | <b>802-.000-0P</b> | 5               | 44                | 14                  | 1                | 0,016 |
|                                                                         |                | 3 NC + 3 NO | maintained       | P                 | T 5.5       | <b>803-.000-0P</b> | 6               | 44                | 14                  | 1                | 0,014 |
|                                                                         |                | 4 NC + 4 NO | maintained       | P                 | T 5.5       | <b>804-.000-0P</b> | 7               | 44                | 14                  | 1                | 0,020 |
|                                                                         |                | 5 NC + 5 NO | maintained       | P                 | T 5.5       | <b>805-.000-0P</b> | 8               | 44                | 14                  | 1                | 0,023 |
|                                                                         | 79 mm          | 1 NC + 1 NO | maintained       | -                 | T 5.5       | <b>801-.000-00</b> | 4               | 45                | 14                  |                  | 0,015 |
|                                                                         |                | 2 NC + 2 NO | maintained       | -                 | T 5.5       | <b>802-.000-00</b> | 5               | 45                | 14                  |                  | 0,016 |
|                                                                         |                | 3 NC + 3 NO | maintained       | -                 | T 5.5       | <b>803-.000-00</b> | 6               | 45                | 14                  |                  | 0,017 |
|                                                                         |                | 4 NC + 4 NO | maintained       | -                 | T 5.5       | <b>804-.000-00</b> | 7               | 45                | 14                  |                  | 0,021 |
|                                                                         |                | 5 NC + 5 NO | maintained       | -                 | T 5.5       | <b>805-.000-00</b> | 8               | 45                | 14                  |                  | 0,024 |

contacts : normally closed = NC, normally open = NO

switching action: (changeable to momentary, reversible)

connection method : PCB terminal = P, soldering-/plug-in terminal = -

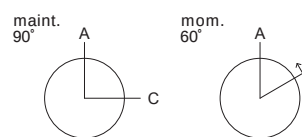
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## keylock switch 2 positions for flush mounting 51 - 79 mm



front cap for keylock-/selector switch 2 positions page 625

front bezel-set for flush mounting page 628

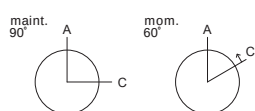


### keylock switch 2 positions for flush mounting 51 - 79 mm

| degree of protection | mounting depth | contacts    | switching action | connection method | key remova-ble in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|----------------------|----------------|-------------|------------------|-------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| IP 40                | 51 mm          | 1 NC + 1 NO | M                | P                 | A                 | <b>781-.401-0P</b> | 21              | 46                | 14                  | 1                | 0,022 |
|                      |                |             | MA               | P                 | A                 | <b>771-.401-0P</b> | 20              | 46                | 14                  | 1                | 0,022 |
|                      |                | 2 NC + 2 NO |                  |                   | A+C               | <b>761-.401-0P</b> | 20              | 46                | 14                  | 1                | 0,022 |
|                      |                |             | M                | P                 | A                 | <b>782-.401-0P</b> | 23              | 46                | 14                  | 1                | 0,023 |
|                      |                |             | MA               | P                 | A                 | <b>772-.401-0P</b> | 22              | 46                | 14                  | 1                | 0,023 |
|                      |                |             |                  |                   | A+C               | <b>762-.401-0P</b> | 22              | 46                | 14                  | 1                | 0,023 |
|                      | 54 mm          | 1 NC + 1 NO | M                | -                 | A                 | <b>781-.401-00</b> | 21              | 47                | 14                  |                  | 0,022 |
|                      |                |             | MA               | -                 | A                 | <b>771-.401-00</b> | 20              | 47                | 14                  |                  | 0,022 |
|                      |                |             |                  |                   | A+C               | <b>761-.401-00</b> | 20              | 47                | 14                  |                  | 0,022 |
|                      |                | 2 NC + 2 NO | M                | -                 | A                 | <b>782-.401-00</b> | 23              | 47                | 14                  |                  | 0,023 |
|                      |                |             | MA               | -                 | A                 | <b>772-.401-00</b> | 22              | 47                | 14                  |                  | 0,023 |
|                      |                |             |                  |                   | A+C               | <b>762-.401-00</b> | 22              | 47                | 14                  |                  | 0,023 |
|                      | 61 mm          | 1 NC + 1 NO | M                | P                 | A                 | <b>931-.401-0P</b> | 25              | 48                | 14                  | 1                | 0,024 |
|                      |                |             | MA               | P                 | A                 | <b>921-.401-0P</b> | 24              | 48                | 14                  | 1                | 0,024 |
|                      |                |             |                  |                   | A+C               | <b>911-.401-0P</b> | 24              | 48                | 14                  | 1                | 0,024 |
|                      |                | 2 NC + 2 NO | M                | P                 | A                 | <b>932-.401-0P</b> | 23              | 48                | 14                  | 1                | 0,025 |
|                      |                |             | MA               | P                 | A                 | <b>922-.401-0P</b> | 22              | 48                | 14                  | 1                | 0,025 |
|                      |                |             |                  |                   | A+C               | <b>912-.401-0P</b> | 22              | 48                | 14                  | 1                | 0,025 |
|                      |                | 3 NC + 3 NO | M                | P                 | A                 | <b>933-.401-0P</b> | 27              | 48                | 14                  | 1                | 0,026 |
|                      |                |             | MA               | P                 | A                 | <b>923-.401-0P</b> | 26              | 48                | 14                  | 1                | 0,026 |
|                      |                |             |                  |                   | A+C               | <b>913-.401-0P</b> | 26              | 48                | 14                  | 1                | 0,026 |
|                      |                | 4 NC + 4 NO | M                | P                 | A                 | <b>934-.401-0P</b> | 29              | 48                | 14                  | 1                | 0,029 |
|                      |                |             | MA               | P                 | A                 | <b>924-.401-0P</b> | 28              | 48                | 14                  | 1                | 0,029 |
|                      |                |             |                  |                   | A+C               | <b>914-.401-0P</b> | 28              | 48                | 14                  | 1                | 0,029 |
|                      |                | 5 NC + 5 NO | M                | P                 | A                 | <b>935-.401-0P</b> | 31              | 48                | 14                  | 1                | 0,032 |
|                      |                |             | MA               | P                 | A                 | <b>925-.401-0P</b> | 30              | 48                | 14                  | 1                | 0,032 |
|                      |                |             |                  |                   | A+C               | <b>915-.401-0P</b> | 30              | 48                | 14                  | 1                | 0,032 |

Continued on next page

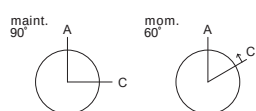




**keylock switch 2 positions**  
for flush mounting 51 - 79 mm

| degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|----------------------|----------------|-------------|------------------|-------------------|------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| IP 40                | 64 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>931-.401-00</b> | 25              | 49                | 14                  |                  | 0,024 |
|                      |                |             | MA               | -                 | A                | <b>921-.401-00</b> | 24              | 49                | 14                  |                  | 0,024 |
|                      |                |             |                  |                   | A+C              | <b>911-.401-00</b> | 24              | 49                | 14                  |                  | 0,024 |
|                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>932-.401-00</b> | 23              | 49                | 14                  |                  | 0,025 |
|                      |                |             | MA               | -                 | A                | <b>922-.401-00</b> | 22              | 49                | 14                  |                  | 0,025 |
|                      |                |             |                  |                   | A+C              | <b>912-.401-00</b> | 22              | 49                | 14                  |                  | 0,025 |
|                      |                | 3 NC + 3 NO | M                | -                 | A                | <b>933-.401-00</b> | 27              | 49                | 14                  |                  | 0,027 |
|                      |                |             | MA               | -                 | A                | <b>923-.401-00</b> | 26              | 49                | 14                  |                  | 0,027 |
|                      |                |             |                  |                   | A+C              | <b>913-.401-00</b> | 26              | 49                | 14                  |                  | 0,027 |
|                      |                | 4 NC + 4 NO | M                | -                 | A                | <b>934-.401-00</b> | 29              | 49                | 14                  |                  | 0,030 |
|                      |                |             | MA               | -                 | A                | <b>924-.401-00</b> | 28              | 49                | 14                  |                  | 0,030 |
|                      |                |             |                  |                   | A+C              | <b>914-.401-00</b> | 28              | 49                | 14                  |                  | 0,030 |
|                      |                | 5 NC + 5 NO | M                | -                 | A                | <b>935-.401-00</b> | 31              | 49                | 14                  |                  | 0,033 |
|                      |                |             | MA               | -                 | A                | <b>925-.401-00</b> | 30              | 49                | 14                  |                  | 0,033 |
|                      |                |             |                  |                   | A+C              | <b>915-.401-00</b> | 30              | 49                | 14                  |                  | 0,033 |
|                      | 76 mm          | 1 NC + 1 NO | M                | P                 | A                | <b>831-.401-0P</b> | 25              | 50                | 14                  | 1                | 0,026 |
|                      |                |             | MA               | P                 | A                | <b>821-.401-0P</b> | 24              | 50                | 14                  | 1                | 0,026 |
|                      |                |             |                  |                   | A+C              | <b>811-.401-0P</b> | 24              | 50                | 14                  | 1                | 0,026 |
|                      |                | 2 NC + 2 NO | M                | P                 | A                | <b>832-.401-0P</b> | 23              | 50                | 14                  | 1                | 0,027 |
|                      |                |             | MA               | P                 | A                | <b>822-.401-0P</b> | 22              | 50                | 14                  | 1                | 0,027 |
|                      |                |             |                  |                   | A+C              | <b>812-.401-0P</b> | 22              | 50                | 14                  | 1                | 0,027 |
|                      |                | 3 NC + 3 NO | M                | P                 | A                | <b>833-.401-0P</b> | 27              | 50                | 14                  | 1                | 0,028 |
|                      |                |             | MA               | P                 | A                | <b>823-.401-0P</b> | 26              | 50                | 14                  | 1                | 0,028 |
|                      |                |             |                  |                   | A+C              | <b>813-.401-0P</b> | 26              | 50                | 14                  | 1                | 0,028 |
|                      |                | 4 NC + 4 NO | M                | P                 | A                | <b>834-.401-0P</b> | 29              | 50                | 14                  | 1                | 0,031 |
|                      |                |             | MA               | P                 | A                | <b>824-.401-0P</b> | 28              | 50                | 14                  | 1                | 0,031 |
|                      |                |             |                  |                   | A+C              | <b>814-.401-0P</b> | 28              | 50                | 14                  | 1                | 0,031 |
|                      |                | 5 NC + 5 NO | M                | P                 | A                | <b>835-.401-0P</b> | 31              | 50                | 14                  | 1                | 0,034 |
|                      |                |             | MA               | P                 | A                | <b>825-.401-0P</b> | 30              | 50                | 14                  | 1                | 0,034 |
|                      |                |             |                  |                   | A+C              | <b>815-.401-0P</b> | 30              | 50                | 14                  | 1                | 0,034 |
|                      | 79 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>831-.401-00</b> | 25              | 51                | 14                  |                  | 0,026 |
|                      |                |             | MA               | -                 | A                | <b>821-.401-00</b> | 24              | 51                | 14                  |                  | 0,026 |
|                      |                |             |                  |                   | A+C              | <b>811-.401-00</b> | 24              | 51                | 14                  |                  | 0,026 |
|                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>832-.401-00</b> | 23              | 51                | 14                  |                  | 0,027 |
|                      |                |             | MA               | -                 | A                | <b>822-.401-00</b> | 22              | 51                | 14                  |                  | 0,027 |
|                      |                |             |                  |                   | A+C              | <b>812-.401-00</b> | 22              | 51                | 14                  |                  | 0,027 |
|                      |                | 3 NC + 3 NO | M                | -                 | A                | <b>833-.401-00</b> | 27              | 51                | 14                  |                  | 0,029 |
|                      |                |             | MA               | -                 | A                | <b>823-.401-00</b> | 26              | 51                | 14                  |                  | 0,029 |
|                      |                |             |                  |                   | A+C              | <b>813-.401-00</b> | 26              | 51                | 14                  |                  | 0,029 |
|                      |                | 4 NC + 4 NO | M                | -                 | A                | <b>834-.401-00</b> | 29              | 51                | 14                  |                  | 0,032 |
|                      |                |             | MA               | -                 | A                | <b>824-.401-00</b> | 28              | 51                | 14                  |                  | 0,032 |
|                      |                |             |                  |                   | A+C              | <b>814-.401-00</b> | 28              | 51                | 14                  |                  | 0,032 |
|                      |                | 5 NC + 5 NO | M                | -                 | A                | <b>835-.401-00</b> | 31              | 51                | 14                  |                  | 0,035 |
|                      |                |             | MA               | -                 | A                | <b>825-.401-00</b> | 30              | 51                | 14                  |                  | 0,035 |
|                      |                |             |                  |                   | A+C              | <b>815-.401-00</b> | 30              | 51                | 14                  |                  | 0,035 |
| IP 65                | 51 mm          | 1 NC + 1 NO | M                | P                 | A                | <b>781-.401-WP</b> | 21              | 46                | 14                  | 1                | 0,022 |
|                      |                |             | MA               | P                 | A                | <b>771-.401-WP</b> | 20              | 46                | 14                  | 1                | 0,022 |
|                      |                |             |                  |                   | A+C              | <b>761-.401-WP</b> | 20              | 46                | 14                  | 1                | 0,022 |
|                      |                | 2 NC + 2 NO | M                | P                 | A                | <b>782-.401-WP</b> | 23              | 46                | 14                  | 1                | 0,023 |
|                      |                |             | MA               | P                 | A                | <b>772-.401-WP</b> | 22              | 46                | 14                  | 1                | 0,023 |
|                      |                |             |                  |                   | A+C              | <b>762-.401-WP</b> | 22              | 46                | 14                  | 1                | 0,023 |

Continued on next page



**keylock switch 2 positions**  
for flush mounting 51 - 79 mm

| degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|----------------------|----------------|-------------|------------------|-------------------|------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| IP 65                | 54 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>781-.401-W0</b> | 21              | 47                | 14                  |                  | 0,022 |
|                      |                |             | MA               | -                 | A                | <b>771-.401-W0</b> | 20              | 47                | 14                  |                  | 0,022 |
|                      |                |             |                  |                   | A+C              | <b>761-.401-W0</b> | 20              | 47                | 14                  |                  | 0,022 |
|                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>782-.401-W0</b> | 23              | 47                | 14                  |                  | 0,023 |
|                      |                |             | MA               | -                 | A                | <b>772-.401-W0</b> | 22              | 47                | 14                  |                  | 0,023 |
|                      |                |             |                  |                   | A+C              | <b>762-.401-W0</b> | 22              | 47                | 14                  |                  | 0,023 |
|                      | 61 mm          | 1 NC + 1 NO | M                | P                 | A                | <b>931-.401-WP</b> | 25              | 48                | 14                  | 1                | 0,024 |
|                      |                |             | MA               | P                 | A                | <b>921-.401-WP</b> | 24              | 48                | 14                  | 1                | 0,024 |
|                      |                |             |                  |                   | A+C              | <b>911-.401-WP</b> | 24              | 48                | 14                  | 1                | 0,024 |
|                      |                | 2 NC + 2 NO | M                | P                 | A                | <b>932-.401-WP</b> | 23              | 48                | 14                  | 1                | 0,025 |
|                      |                |             | MA               | P                 | A                | <b>922-.401-WP</b> | 22              | 48                | 14                  | 1                | 0,025 |
|                      |                |             |                  |                   | A+C              | <b>912-.401-WP</b> | 22              | 48                | 14                  | 1                | 0,025 |
|                      |                | 3 NC + 3 NO | M                | P                 | A                | <b>933-.401-WP</b> | 27              | 48                | 14                  | 1                | 0,026 |
|                      |                |             | MA               | P                 | A                | <b>923-.401-WP</b> | 26              | 48                | 14                  | 1                | 0,026 |
|                      |                |             |                  |                   | A+C              | <b>913-.401-WP</b> | 26              | 48                | 14                  | 1                | 0,026 |
|                      |                | 4 NC + 4 NO | M                | P                 | A                | <b>934-.401-WP</b> | 29              | 48                | 14                  | 1                | 0,029 |
|                      |                |             | MA               | P                 | A                | <b>924-.401-WP</b> | 28              | 48                | 14                  | 1                | 0,029 |
|                      |                |             |                  |                   | A+C              | <b>914-.401-WP</b> | 28              | 48                | 14                  | 1                | 0,029 |
|                      |                | 5 NC + 5 NO | M                | P                 | A                | <b>935-.401-WP</b> | 31              | 48                | 14                  | 1                | 0,032 |
|                      |                |             | MA               | P                 | A                | <b>925-.401-WP</b> | 30              | 48                | 14                  | 1                | 0,032 |
|                      |                |             |                  |                   | A+C              | <b>915-.401-WP</b> | 30              | 48                | 14                  | 1                | 0,032 |
|                      | 64 mm          | 1 NC + 1 NO | M                | -                 | A                | <b>931-.401-W0</b> | 25              | 49                | 14                  |                  | 0,024 |
|                      |                |             | MA               | -                 | A                | <b>921-.401-W0</b> | 24              | 49                | 14                  |                  | 0,024 |
|                      |                |             |                  |                   | A+C              | <b>911-.401-W0</b> | 24              | 49                | 14                  |                  | 0,024 |
|                      |                | 2 NC + 2 NO | M                | -                 | A                | <b>932-.401-W0</b> | 23              | 49                | 14                  |                  | 0,025 |
|                      |                |             | MA               | -                 | A                | <b>922-.401-W0</b> | 22              | 49                | 14                  |                  | 0,025 |
|                      |                |             |                  |                   | A+C              | <b>912-.401-W0</b> | 22              | 49                | 14                  |                  | 0,025 |
|                      |                | 3 NC + 3 NO | M                | -                 | A                | <b>933-.401-W0</b> | 27              | 49                | 14                  |                  | 0,027 |
|                      |                |             | MA               | -                 | A                | <b>923-.401-W0</b> | 26              | 49                | 14                  |                  | 0,027 |
|                      |                |             |                  |                   | A+C              | <b>913-.401-W0</b> | 26              | 49                | 14                  |                  | 0,027 |
|                      |                | 4 NC + 4 NO | M                | -                 | A                | <b>934-.401-W0</b> | 29              | 49                | 14                  |                  | 0,030 |
|                      |                |             | MA               | -                 | A                | <b>924-.401-W0</b> | 28              | 49                | 14                  |                  | 0,030 |
|                      |                |             |                  |                   | A+C              | <b>914-.401-W0</b> | 28              | 49                | 14                  |                  | 0,030 |
|                      |                | 5 NC + 5 NO | M                | -                 | A                | <b>935-.401-W0</b> | 31              | 49                | 14                  |                  | 0,033 |
|                      |                |             | MA               | -                 | A                | <b>925-.401-W0</b> | 30              | 49                | 14                  |                  | 0,033 |
|                      |                |             |                  |                   | A+C              | <b>915-.401-W0</b> | 30              | 49                | 14                  |                  | 0,033 |
|                      | 76 mm          | 1 NC + 1 NO | M                | P                 | A                | <b>831-.401-WP</b> | 25              | 50                | 14                  | 1                | 0,026 |
|                      |                |             | MA               | P                 | A                | <b>821-.401-WP</b> | 24              | 50                | 14                  | 1                | 0,026 |
|                      |                |             |                  |                   | A+C              | <b>811-.401-WP</b> | 24              | 50                | 14                  | 1                | 0,026 |
|                      |                | 2 NC + 2 NO | M                | P                 | A                | <b>832-.401-WP</b> | 23              | 50                | 14                  | 1                | 0,027 |
|                      |                |             | MA               | P                 | A                | <b>822-.401-WP</b> | 22              | 50                | 14                  | 1                | 0,027 |
|                      |                |             |                  |                   | A+C              | <b>812-.401-WP</b> | 22              | 50                | 14                  | 1                | 0,027 |
|                      |                | 3 NC + 3 NO | M                | P                 | A                | <b>833-.401-WP</b> | 27              | 50                | 14                  | 1                | 0,028 |
|                      |                |             | MA               | P                 | A                | <b>823-.401-WP</b> | 26              | 50                | 14                  | 1                | 0,028 |
|                      |                |             |                  |                   | A+C              | <b>813-.401-WP</b> | 26              | 50                | 14                  | 1                | 0,028 |
|                      |                | 4 NC + 4 NO | M                | P                 | A                | <b>834-.401-WP</b> | 29              | 50                | 14                  | 1                | 0,031 |
|                      |                |             | MA               | P                 | A                | <b>824-.401-WP</b> | 28              | 50                | 14                  | 1                | 0,031 |
|                      |                |             |                  |                   | A+C              | <b>814-.401-WP</b> | 28              | 50                | 14                  | 1                | 0,031 |
|                      |                | 5 NC + 5 NO | M                | P                 | A                | <b>835-.401-WP</b> | 31              | 50                | 14                  | 1                | 0,034 |
|                      |                |             | MA               | P                 | A                | <b>825-.401-WP</b> | 30              | 50                | 14                  | 1                | 0,034 |
|                      |                |             |                  |                   | A+C              | <b>815-.401-WP</b> | 30              | 50                | 14                  | 1                | 0,034 |

Continued on next page

|                                                                                                                                                                                                                                                                                                                       |                      |                |             |                  |                   |                  |             |                 |                   |                     |                  |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|------------------|-------------|-----------------|-------------------|---------------------|------------------|-------|
| <div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div> <div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div> |                      |                |             |                  |                   |                  |             |                 |                   |                     |                  |       |
|                                                                                                                                                                                                                                                                                                                       | degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.    | circuit drawing | technical drawing | mounting dimensions | component layout |       |
| keylock switch 2 positions<br>for flush mounting 51 - 79 mm                                                                                                                                                                                                                                                           | IP 65                | 79 mm          | 1 NC + 1 NO | M                | -                 | A                | 831-.401-W0 | 25              | 51                | 14                  |                  | 0,026 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             | MA               | -                 | A                | 821-.401-W0 | 24              | 51                | 14                  |                  | 0,026 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             |                  | -                 | A+C              | 811-.401-W0 | 24              | 51                | 14                  |                  | 0,026 |
|                                                                                                                                                                                                                                                                                                                       |                      |                | 2 NC + 2 NO | M                | -                 | A                | 832-.401-W0 | 23              | 51                | 14                  |                  | 0,027 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             | MA               | -                 | A                | 822-.401-W0 | 22              | 51                | 14                  |                  | 0,027 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             |                  | -                 | A+C              | 812-.401-W0 | 22              | 51                | 14                  |                  | 0,027 |
|                                                                                                                                                                                                                                                                                                                       |                      |                | 3 NC + 3 NO | M                | -                 | A                | 833-.401-W0 | 27              | 51                | 14                  |                  | 0,029 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             | MA               | -                 | A                | 823-.401-W0 | 26              | 51                | 14                  |                  | 0,029 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             |                  | -                 | A+C              | 813-.401-W0 | 26              | 51                | 14                  |                  | 0,029 |
|                                                                                                                                                                                                                                                                                                                       |                      |                | 4 NC + 4 NO | M                | -                 | A                | 834-.401-W0 | 29              | 51                | 14                  |                  | 0,032 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             | MA               | -                 | A                | 824-.401-W0 | 28              | 51                | 14                  |                  | 0,032 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             |                  | -                 | A+C              | 814-.401-W0 | 28              | 51                | 14                  |                  | 0,032 |
|                                                                                                                                                                                                                                                                                                                       |                      |                | 5 NC + 5 NO | M                | -                 | A                | 835-.401-W0 | 31              | 51                | 14                  |                  | 0,035 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             | MA               | -                 | A                | 825-.401-W0 | 30              | 51                | 14                  |                  | 0,035 |
|                                                                                                                                                                                                                                                                                                                       |                      |                |             |                  | -                 | A+C              | 815-.401-W0 | 30              | 51                | 14                  |                  | 0,035 |

contacts : normally closed = NC, normally open = NO

switching action : maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

other key removable combination on request

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

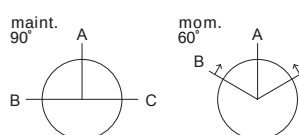
circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

## keylock switch with 3 positions for flush mounting 51 - 54 mm



front cap for keylock-/selector switch 3 positions 626

front bezel-set for flush mounting page 628



|                                                               | degree of protection | mounting depth | contacts    | switching action | connection method | key removable in | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| keylock switch with 3 positions for flush mounting 51 - 54 mm | IP 40                | 51 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | B+A+C            | <b>722-.401-0P</b> | 32              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | M - 0 - M        | P                 | A                | <b>732-.401-0P</b> | 33              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | M - 0 - MA       | P                 | A+C              | <b>752-.401-0P</b> | 35              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | MA - 0 - M       | P                 | B+A              | <b>742-.401-0P</b> | 34              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | MA - 0 - MA      | P                 | B+A+C            | <b>712-.401-0P</b> | 32              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      | 54 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | B+A+C            | <b>722-.401-00</b> | 32              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | M - 0 - M        | -                 | A                | <b>732-.401-00</b> | 33              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | M - 0 - MA       | -                 | A+C              | <b>752-.401-00</b> | 35              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | MA - 0 - M       | -                 | B+A              | <b>742-.401-00</b> | 34              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | MA - 0 - MA      | -                 | B+A+C            | <b>712-.401-00</b> | 32              | 47                | 14                  |                  | 0,023 |
|                                                               | IP 65                | 51 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | B+A+C            | <b>722-.401-WP</b> | 32              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | M - 0 - M        | P                 | A                | <b>732-.401-WP</b> | 33              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | M - 0 - MA       | P                 | A+C              | <b>752-.401-WP</b> | 35              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | MA - 0 - M       | P                 | B+A              | <b>742-.401-WP</b> | 34              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      |                |             | MA - 0 - MA      | P                 | B+A+C            | <b>712-.401-WP</b> | 32              | 46                | 14                  | 1                | 0,023 |
|                                                               |                      | 54 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | B+A+C            | <b>722-.401-W0</b> | 32              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | M - 0 - M        | -                 | A                | <b>732-.401-W0</b> | 33              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | M - 0 - MA       | -                 | A+C              | <b>752-.401-W0</b> | 35              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | MA - 0 - M       | -                 | B+A              | <b>742-.401-W0</b> | 34              | 47                | 14                  |                  | 0,023 |
|                                                               |                      |                |             | MA - 0 - MA      | -                 | B+A+C            | <b>712-.401-W0</b> | 32              | 47                | 14                  |                  | 0,023 |

contacts : normally closed = NC, normally open = NO

switching action : maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

other key removable combination on request

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

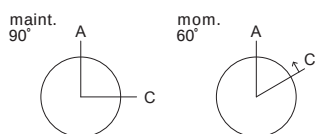
## selector switch 2 positions for flush mounting 51 - 79 mm



front cap for keylock-/selector switch 2 positions page 625

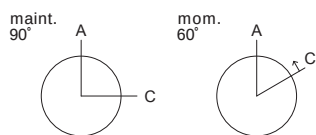
lever page 627

front bezel-set for flush mounting page 628



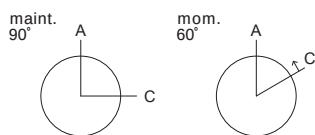
|                                                                     | degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>selector switch 2 positions</b><br>for flush mounting 51 - 79 mm | IP 40                | 51 mm          | 1 NC + 1 NO | M                | P                 | <b>781-.700-0P</b> | 37              | 52                | 15                  | 1                | 0,011 |
|                                                                     |                      |                |             | MA               | P                 | <b>761-.700-0P</b> | 36              | 52                | 15                  | 1                | 0,011 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | P                 | <b>782-.700-0P</b> | 39              | 52                | 15                  | 1                | 0,012 |
|                                                                     |                      |                |             | MA               | P                 | <b>762-.700-0P</b> | 38              | 52                | 15                  | 1                | 0,012 |
|                                                                     |                      | 54 mm          | 1 NC + 1 NO | M                | -                 | <b>781-.700-00</b> | 37              | 53                | 15                  |                  | 0,011 |
|                                                                     |                      |                |             | MA               | -                 | <b>761-.700-00</b> | 36              | 53                | 15                  |                  | 0,011 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | -                 | <b>782-.700-00</b> | 39              | 53                | 15                  |                  | 0,012 |
|                                                                     |                      |                |             | MA               | -                 | <b>762-.700-00</b> | 38              | 53                | 15                  |                  | 0,012 |
|                                                                     |                      | 61 mm          | 1 NC + 1 NO | M                | P                 | <b>931-.700-0P</b> | 41              | 54                | 15                  | 1                | 0,013 |
|                                                                     |                      |                |             | MA               | P                 | <b>911-.700-0P</b> | 40              | 54                | 15                  | 1                | 0,013 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | P                 | <b>932-.700-0P</b> | 39              | 54                | 15                  | 1                | 0,014 |
|                                                                     |                      |                |             | MA               | P                 | <b>912-.700-0P</b> | 38              | 54                | 15                  | 1                | 0,014 |
|                                                                     |                      |                | 3 NC + 3 NO | M                | P                 | <b>933-.700-0P</b> | 43              | 54                | 15                  | 1                | 0,015 |
|                                                                     |                      |                |             | MA               | P                 | <b>913-.700-0P</b> | 42              | 54                | 15                  | 1                | 0,015 |
|                                                                     |                      |                | 4 NC + 4 NO | M                | P                 | <b>934-.700-0P</b> | 45              | 54                | 15                  | 1                | 0,018 |
|                                                                     |                      |                |             | MA               | P                 | <b>914-.700-0P</b> | 44              | 54                | 15                  | 1                | 0,018 |
|                                                                     |                      |                | 5 NC + 5 NO | M                | P                 | <b>935-.700-0P</b> | 47              | 54                | 15                  | 1                | 0,022 |
|                                                                     |                      |                |             | MA               | P                 | <b>915-.700-0P</b> | 46              | 54                | 15                  | 1                | 0,022 |
|                                                                     |                      | 64 mm          | 1 NC + 1 NO | M                | -                 | <b>931-.700-00</b> | 41              | 55                | 15                  |                  | 0,013 |
|                                                                     |                      |                |             | MA               | -                 | <b>911-.700-00</b> | 40              | 55                | 15                  |                  | 0,013 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | -                 | <b>932-.700-00</b> | 39              | 55                | 15                  |                  | 0,014 |
|                                                                     |                      |                |             | MA               | -                 | <b>912-.700-00</b> | 38              | 55                | 15                  |                  | 0,014 |
|                                                                     |                      |                | 3 NC + 3 NO | M                | -                 | <b>933-.700-00</b> | 43              | 55                | 15                  |                  | 0,015 |
|                                                                     |                      |                |             | MA               | -                 | <b>913-.700-00</b> | 42              | 55                | 15                  |                  | 0,015 |
|                                                                     |                      |                | 4 NC + 4 NO | M                | -                 | <b>934-.700-00</b> | 45              | 55                | 15                  |                  | 0,019 |
|                                                                     |                      |                |             | MA               | -                 | <b>914-.700-00</b> | 44              | 55                | 15                  |                  | 0,019 |
|                                                                     |                      |                | 5 NC + 5 NO | M                | -                 | <b>935-.700-00</b> | 47              | 55                | 15                  |                  | 0,023 |
|                                                                     |                      |                |             | MA               | -                 | <b>915-.700-00</b> | 46              | 55                | 15                  |                  | 0,023 |

Continued on next page



|                                                                     | degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>selector switch 2 positions</b><br>for flush mounting 51 - 79 mm | IP 65                | 76 mm          | 1 NC + 1 NO | M                | P                 | <b>831-.700-0P</b> | 41              | 56                | 15                  | 1                | 0,015 |
|                                                                     |                      |                |             | MA               | P                 | <b>811-.700-0P</b> | 40              | 56                | 15                  | 1                | 0,015 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | P                 | <b>832-.700-0P</b> | 39              | 56                | 15                  | 1                | 0,016 |
|                                                                     |                      |                |             | MA               | P                 | <b>812-.700-0P</b> | 38              | 56                | 15                  | 1                | 0,016 |
|                                                                     |                      |                | 3 NC + 3 NO | M                | P                 | <b>833-.700-0P</b> | 43              | 56                | 15                  | 1                | 0,017 |
|                                                                     |                      |                |             | MA               | P                 | <b>813-.700-0P</b> | 42              | 56                | 15                  | 1                | 0,017 |
|                                                                     |                      |                | 4 NC + 4 NO | M                | P                 | <b>834-.700-0P</b> | 45              | 56                | 15                  | 1                | 0,020 |
|                                                                     |                      |                |             | MA               | P                 | <b>814-.700-0P</b> | 44              | 56                | 15                  | 1                | 0,020 |
|                                                                     |                      |                | 5 NC + 5 NO | M                | P                 | <b>835-.700-0P</b> | 47              | 56                | 15                  | 1                | 0,024 |
|                                                                     |                      |                |             | MA               | P                 | <b>815-.700-0P</b> | 46              | 56                | 15                  | 1                | 0,024 |
|                                                                     |                      | 79 mm          | 1 NC + 1 NO | M                | -                 | <b>831-.700-00</b> | 41              | 57                | 15                  |                  | 0,015 |
|                                                                     |                      |                |             | MA               | -                 | <b>811-.700-00</b> | 40              | 57                | 15                  |                  | 0,015 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | -                 | <b>832-.700-00</b> | 39              | 57                | 15                  |                  | 0,016 |
|                                                                     |                      |                |             | MA               | -                 | <b>812-.700-00</b> | 38              | 57                | 15                  |                  | 0,016 |
|                                                                     |                      |                | 3 NC + 3 NO | M                | -                 | <b>833-.700-00</b> | 43              | 57                | 15                  |                  | 0,017 |
|                                                                     |                      |                |             | MA               | -                 | <b>813-.700-00</b> | 42              | 57                | 15                  |                  | 0,017 |
|                                                                     |                      |                | 4 NC + 4 NO | M                | -                 | <b>834-.700-00</b> | 45              | 57                | 15                  |                  | 0,021 |
|                                                                     |                      |                |             | MA               | -                 | <b>814-.700-00</b> | 44              | 57                | 15                  |                  | 0,021 |
|                                                                     |                      |                | 5 NC + 5 NO | M                | -                 | <b>835-.700-00</b> | 47              | 57                | 15                  |                  | 0,025 |
|                                                                     |                      |                |             | MA               | -                 | <b>815-.700-00</b> | 46              | 57                | 15                  |                  | 0,025 |
|                                                                     |                      | 51 mm          | 1 NC + 1 NO | M                | P                 | <b>781-.700-WP</b> | 37              | 52                | 15                  | 1                | 0,011 |
|                                                                     |                      |                |             | MA               | P                 | <b>761-.700-WP</b> | 36              | 52                | 15                  | 1                | 0,011 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | P                 | <b>782-.700-WP</b> | 39              | 52                | 15                  | 1                | 0,012 |
|                                                                     |                      |                |             | MA               | P                 | <b>762-.700-WP</b> | 38              | 52                | 15                  | 1                | 0,012 |
|                                                                     |                      | 54 mm          | 1 NC + 1 NO | M                | -                 | <b>781-.700-W0</b> | 37              | 53                | 15                  |                  | 0,011 |
|                                                                     |                      |                |             | MA               | -                 | <b>761-.700-W0</b> | 36              | 53                | 15                  |                  | 0,011 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | -                 | <b>782-.700-W0</b> | 39              | 53                | 15                  |                  | 0,012 |
|                                                                     |                      |                |             | MA               | -                 | <b>762-.700-W0</b> | 38              | 53                | 15                  |                  | 0,012 |
|                                                                     |                      | 61 mm          | 1 NC + 1 NO | M                | P                 | <b>931-.700-WP</b> | 41              | 54                | 15                  | 1                | 0,013 |
|                                                                     |                      |                |             | MA               | P                 | <b>911-.700-WP</b> | 40              | 54                | 15                  | 1                | 0,013 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | P                 | <b>932-.700-WP</b> | 39              | 54                | 15                  | 1                | 0,014 |
|                                                                     |                      |                |             | MA               | P                 | <b>912-.700-WP</b> | 38              | 54                | 15                  | 1                | 0,014 |
|                                                                     |                      |                | 3 NC + 3 NO | M                | P                 | <b>933-.700-WP</b> | 43              | 54                | 15                  | 1                | 0,015 |
|                                                                     |                      |                |             | MA               | P                 | <b>913-.700-WP</b> | 42              | 54                | 15                  | 1                | 0,015 |
|                                                                     |                      |                | 4 NC + 4 NO | M                | P                 | <b>934-.700-WP</b> | 45              | 54                | 15                  | 1                | 0,018 |
|                                                                     |                      |                |             | MA               | P                 | <b>914-.700-WP</b> | 44              | 54                | 15                  | 1                | 0,018 |
|                                                                     |                      |                | 5 NC + 5 NO | M                | P                 | <b>935-.700-WP</b> | 47              | 54                | 15                  | 1                | 0,022 |
|                                                                     |                      |                |             | MA               | P                 | <b>915-.700-WP</b> | 46              | 54                | 15                  | 1                | 0,022 |
|                                                                     |                      | 64 mm          | 1 NC + 1 NO | M                | -                 | <b>931-.700-W0</b> | 41              | 55                | 15                  |                  | 0,013 |
|                                                                     |                      |                |             | MA               | -                 | <b>911-.700-W0</b> | 40              | 55                | 15                  |                  | 0,013 |
|                                                                     |                      |                | 2 NC + 2 NO | M                | -                 | <b>932-.700-W0</b> | 39              | 55                | 15                  |                  | 0,014 |
|                                                                     |                      |                |             | MA               | -                 | <b>912-.700-W0</b> | 38              | 55                | 15                  |                  | 0,014 |
|                                                                     |                      |                | 3 NC + 3 NO | M                | -                 | <b>933-.700-W0</b> | 43              | 55                | 15                  |                  | 0,015 |
|                                                                     |                      |                |             | MA               | -                 | <b>913-.700-W0</b> | 42              | 55                | 15                  |                  | 0,015 |
|                                                                     |                      |                | 4 NC + 4 NO | M                | -                 | <b>934-.700-W0</b> | 45              | 55                | 15                  |                  | 0,019 |
|                                                                     |                      |                |             | MA               | -                 | <b>914-.700-W0</b> | 44              | 55                | 15                  |                  | 0,019 |
|                                                                     |                      |                | 5 NC + 5 NO | M                | -                 | <b>935-.700-W0</b> | 47              | 55                | 15                  |                  | 0,023 |
|                                                                     |                      |                |             | MA               | -                 | <b>915-.700-W0</b> | 46              | 55                | 15                  |                  | 0,023 |

Continued on next page



| selector switch 2 positions<br>for flush mounting 51 - 79 mm | degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|--------------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
|                                                              |                      |                |             |                  |                   |                    |                 |                   |                     |                  |       |
|                                                              | IP 65                | 76 mm          | 1 NC + 1 NO | M                | P                 | <b>831-.700-WP</b> | 41              | 56                | 15                  | 1                | 0,015 |
|                                                              |                      |                |             | MA               | P                 | <b>811-.700-WP</b> | 40              | 56                | 15                  | 1                | 0,015 |
|                                                              |                      |                | 2 NC + 2 NO | M                | P                 | <b>832-.700-WP</b> | 39              | 56                | 15                  | 1                | 0,016 |
|                                                              |                      |                |             | MA               | P                 | <b>812-.700-WP</b> | 38              | 56                | 15                  | 1                | 0,016 |
|                                                              |                      |                | 3 NC + 3 NO | M                | P                 | <b>833-.700-WP</b> | 43              | 56                | 15                  | 1                | 0,017 |
|                                                              |                      |                |             | MA               | P                 | <b>813-.700-WP</b> | 42              | 56                | 15                  | 1                | 0,017 |
|                                                              |                      |                | 4 NC + 4 NO | M                | P                 | <b>834-.700-WP</b> | 45              | 56                | 15                  | 1                | 0,020 |
|                                                              |                      |                |             | MA               | P                 | <b>814-.700-WP</b> | 44              | 56                | 15                  | 1                | 0,020 |
|                                                              |                      |                | 5 NC + 5 NO | M                | P                 | <b>835-.700-WP</b> | 47              | 56                | 15                  | 1                | 0,024 |
|                                                              |                      |                |             | MA               | P                 | <b>815-.700-WP</b> | 46              | 56                | 15                  | 1                | 0,024 |
|                                                              |                      | 79 mm          | 1 NC + 1 NO | M                | -                 | <b>831-.700-W0</b> | 41              | 57                | 15                  |                  | 0,015 |
|                                                              |                      |                |             | MA               | -                 | <b>811-.700-W0</b> | 40              | 57                | 15                  |                  | 0,015 |
|                                                              |                      |                | 2 NC + 2 NO | M                | -                 | <b>832-.700-W0</b> | 39              | 57                | 15                  |                  | 0,016 |
|                                                              |                      |                |             | MA               | -                 | <b>812-.700-W0</b> | 38              | 57                | 15                  |                  | 0,016 |
|                                                              |                      |                | 3 NC + 3 NO | M                | -                 | <b>833-.700-W0</b> | 43              | 57                | 15                  |                  | 0,017 |
|                                                              |                      |                |             | MA               | -                 | <b>813-.700-W0</b> | 42              | 57                | 15                  |                  | 0,017 |
|                                                              |                      |                | 4 NC + 4 NO | M                | -                 | <b>834-.700-W0</b> | 45              | 57                | 15                  |                  | 0,021 |
|                                                              |                      |                |             | MA               | -                 | <b>814-.700-W0</b> | 44              | 57                | 15                  |                  | 0,021 |
|                                                              |                      |                | 5 NC + 5 NO | M                | -                 | <b>835-.700-W0</b> | 47              | 57                | 15                  |                  | 0,025 |
|                                                              |                      |                |             | MA               | -                 | <b>815-.700-W0</b> | 46              | 57                | 15                  |                  | 0,025 |

contacts : normally closed = NC, normally open = NO

switching action : maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

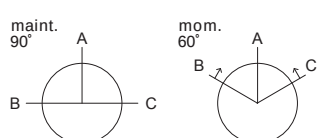
## selector switch 3 positions for flush mounting 51 - 54 mm



front cap for keylock-/selector switch 3 positions page 626

lever page 627

front bezel-set for flush mounting page 628



|                                                           | degree of protection | mounting depth | contacts    | switching action | connection method | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout | leg   |
|-----------------------------------------------------------|----------------------|----------------|-------------|------------------|-------------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| selector switch 3 positions for flush mounting 51 - 54 mm | IP 40                | 51 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | <b>722-.700-0P</b> | 48              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | M - 0 - M        | P                 | <b>732-.700-0P</b> | 49              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | M - 0 - MA       | P                 | <b>752-.700-0P</b> | 51              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | MA - 0 - M       | P                 | <b>742-.700-0P</b> | 50              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | MA - 0 - MA      | P                 | <b>712-.700-0P</b> | 48              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      | 54 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | <b>722-.700-00</b> | 48              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | M - 0 - M        | -                 | <b>732-.700-00</b> | 49              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | M - 0 - MA       | -                 | <b>752-.700-00</b> | 51              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | MA - 0 - M       | -                 | <b>742-.700-00</b> | 50              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | MA - 0 - MA      | -                 | <b>712-.700-00</b> | 48              | 53                | 15                  |                  | 0,012 |
|                                                           | IP 65                | 51 mm          | 2 NC + 2 NO | 0 - MA - MA      | P                 | <b>722-.700-WP</b> | 48              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | M - 0 - M        | P                 | <b>732-.700-WP</b> | 49              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | M - 0 - MA       | P                 | <b>752-.700-WP</b> | 51              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | MA - 0 - M       | P                 | <b>742-.700-WP</b> | 50              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      |                |             | MA - 0 - MA      | P                 | <b>712-.700-WP</b> | 48              | 52                | 15                  | 1                | 0,012 |
|                                                           |                      | 54 mm          | 2 NC + 2 NO | 0 - MA - MA      | -                 | <b>722-.700-W0</b> | 48              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | M - 0 - M        | -                 | <b>732-.700-W0</b> | 49              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | M - 0 - MA       | -                 | <b>752-.700-W0</b> | 51              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | MA - 0 - M       | -                 | <b>742-.700-W0</b> | 50              | 53                | 15                  |                  | 0,012 |
|                                                           |                      |                |             | MA - 0 - MA      | -                 | <b>712-.700-W0</b> | 48              | 53                | 15                  |                  | 0,012 |

contacts : normally closed = NC, normally open = NO

switching action: maintained action = MA, momentary action = M

connection method : PCB terminal = P, soldering-/plug-in terminal = -

hint:

- we recommend to use location strip no. 260-0020-00 for anti-twisting of the front bezel.

- at momentary position the overturning force is max. 60 Ncm.

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657



## buzzer for flush mounting 39 - 64 mm



- 🛒 buzzer element page 627
- 🛒 front bezel for buzzer 30 - 55 mm page 628
- 🛒 front bezel set for flush mounting for buzzer page 628

|                                             | degree of protection | mounting depth | connection method | buzzer socket | part no.           | circuit drawing | technical drawing | mounting dimensions | component layout |       |
|---------------------------------------------|----------------------|----------------|-------------------|---------------|--------------------|-----------------|-------------------|---------------------|------------------|-------|
| <b>buzzer for flush mounting 39 - 64 mm</b> | IP 40                | 39 mm          | -                 | MG T 1 3/4    | <b>970-.000-K0</b> | 52              | 36                | 16                  |                  | 0,004 |
|                                             |                      | 61 mm          | P                 | MG T 1 3/4    | <b>970-.000-0P</b> | 52              | 38                | 16                  | 1                | 0,007 |
|                                             |                      | 64 mm          | -                 | MG T 1 3/4    | <b>970-.000-00</b> | 52              | 39                | 16                  |                  | 0,007 |

connection method : soldering-/plug-in terminal = -, PCB terminal = P

the buzzer 55 mm is as long as the corresponding illuminated pushbutton and fits to the PCB plug-in base and multi plug housing

circuit drawings from page 657, technical drawings from page 642, mounting dimensions from page 652, component layouts from page 657

at front

lens for 35 mm

for pushbuttons 35 mm

|                                                           | shape | lens/support                 | colour | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. |  |
|-----------------------------------------------------------|-------|------------------------------|--------|-----------------------|-----------------------|-----------------------|-------------------------------------------------------------------------------------|
| lens for 35 mm<br>of plastic                              | flat  | transparent/translu-<br>cent | blue   | <b>600-5150-00</b>    | <b>600-3150-00</b>    | <b>600-1150-00</b>    | 0,001                                                                               |
|                                                           |       |                              | yellow | <b>600-5170-00</b>    | <b>600-3170-00</b>    | <b>600-1170-00</b>    | 0,001                                                                               |
|                                                           |       |                              | green  | <b>600-5140-00</b>    | <b>600-3140-00</b>    | <b>600-1140-00</b>    | 0,001                                                                               |
|                                                           |       |                              | orange | <b>600-5110-00</b>    | <b>600-3110-00</b>    | <b>600-1110-00</b>    | 0,001                                                                               |
|                                                           |       |                              | red    | <b>600-5120-00</b>    | <b>600-3120-00</b>    | <b>600-1120-00</b>    | 0,001                                                                               |
|                                                           |       |                              | white  | <b>600-5160-00</b>    | <b>600-3160-00</b>    | <b>600-1160-00</b>    | 0,001                                                                               |
| of plastic (not recom-<br>mended for film in-<br>sert)    | flat  | transparent/transpa-<br>rent | blue   | <b>600-5250-00</b>    | <b>600-3250-00</b>    | <b>600-1250-00</b>    | 0,001                                                                               |
|                                                           |       |                              | yellow | <b>600-5270-00</b>    | <b>600-3270-00</b>    | <b>600-1270-00</b>    | 0,001                                                                               |
|                                                           |       |                              | green  | <b>600-5240-00</b>    | <b>600-3240-00</b>    | <b>600-1240-00</b>    | 0,001                                                                               |
|                                                           |       |                              | orange | <b>600-5210-00</b>    | <b>600-3210-00</b>    | <b>600-1210-00</b>    | 0,001                                                                               |
|                                                           |       |                              | red    | <b>600-5220-00</b>    | <b>600-3220-00</b>    | <b>600-1220-00</b>    | 0,001                                                                               |
|                                                           |       |                              | white  | <b>600-5260-00</b>    | <b>600-3260-00</b>    | <b>600-1260-00</b>    | 0,001                                                                               |
| of plastic (not for film<br>insert and illuminati-<br>on) | flat  | opaque/translucent           | grey   | <b>600-5180-00</b>    | <b>600-3180-00</b>    | <b>600-1180-00</b>    | 0,001                                                                               |
|                                                           |       |                              | black  | <b>600-5190-00</b>    | <b>600-3190-00</b>    | <b>600-1190-00</b>    | 0,001                                                                               |



**lens**

|                    | degree of protection | front dimension<br>pushbutton | shape | lens/support                | colour | part no.           | QTY   |
|--------------------|----------------------|-------------------------------|-------|-----------------------------|--------|--------------------|-------|
| lens<br>of plastic | IP 40                | 18 x 18 mm                    | flat  | transparent/<br>translucent | blue   | <b>200-3150-00</b> | 0,001 |
|                    |                      |                               |       |                             | yellow | <b>200-3170-00</b> | 0,001 |
|                    |                      |                               |       |                             | green  | <b>200-3140-00</b> | 0,001 |
|                    |                      |                               |       |                             | orange | <b>200-3110-00</b> | 0,001 |
|                    |                      |                               |       |                             | red    | <b>200-3120-00</b> | 0,001 |
|                    |                      |                               |       |                             | white  | <b>200-3160-00</b> | 0,001 |
|                    |                      | 18 x 24 mm                    | flat  | transparent/<br>translucent | blue   | <b>200-5150-00</b> | 0,001 |
|                    |                      |                               |       |                             | yellow | <b>200-5170-00</b> | 0,001 |
|                    |                      |                               |       |                             | green  | <b>200-5140-00</b> | 0,001 |
|                    |                      |                               |       |                             | orange | <b>200-5110-00</b> | 0,001 |
|                    |                      |                               |       |                             | red    | <b>200-5120-00</b> | 0,001 |
|                    |                      |                               |       |                             | white  | <b>200-5160-00</b> | 0,001 |
|                    |                      | 24 x 24 mm                    | flat  | transparent/<br>translucent | blue   | <b>200-9150-00</b> | 0,001 |
|                    |                      |                               |       |                             | yellow | <b>200-9170-00</b> | 0,001 |
|                    |                      |                               |       |                             | green  | <b>200-9140-00</b> | 0,001 |
|                    |                      |                               |       |                             | orange | <b>200-9110-00</b> | 0,001 |
|                    |                      |                               |       |                             | red    | <b>200-9120-00</b> | 0,001 |
|                    |                      |                               |       |                             | white  | <b>200-9160-00</b> | 0,001 |
|                    |                      | 18 mm dia.                    | flat  | transparent/<br>translucent | blue   | <b>200-1150-00</b> | 0,001 |
|                    |                      |                               |       |                             | yellow | <b>200-1170-00</b> | 0,001 |
|                    |                      |                               |       |                             | green  | <b>200-1140-00</b> | 0,001 |
|                    |                      |                               |       |                             | orange | <b>200-1110-00</b> | 0,001 |
|                    |                      |                               |       |                             | red    | <b>200-1120-00</b> | 0,001 |
|                    |                      |                               |       |                             | white  | <b>200-1160-00</b> | 0,001 |
|                    |                      | 24 mm dia.                    | flat  | transparent/<br>translucent | blue   | <b>200-7150-00</b> | 0,001 |
|                    |                      |                               |       |                             | yellow | <b>200-7170-00</b> | 0,001 |
|                    |                      |                               |       |                             | green  | <b>200-7140-00</b> | 0,001 |
|                    |                      |                               |       |                             | orange | <b>200-7110-00</b> | 0,001 |
|                    |                      |                               |       |                             | red    | <b>200-7120-00</b> | 0,001 |
|                    |                      |                               |       |                             | white  | <b>200-7160-00</b> | 0,001 |
|                    | IP 65                | 24 x 24 mm                    | flat  | transparent/<br>translucent | blue   | <b>200-9150-W0</b> | 0,002 |
|                    |                      |                               |       |                             | yellow | <b>200-9170-W0</b> | 0,002 |
|                    |                      |                               |       |                             | green  | <b>200-9140-W0</b> | 0,002 |
|                    |                      |                               |       |                             | orange | <b>200-9110-W0</b> | 0,002 |
|                    |                      |                               |       |                             | red    | <b>200-9120-W0</b> | 0,002 |
|                    |                      |                               |       |                             | white  | <b>200-9160-W0</b> | 0,002 |
|                    |                      | 24 mm dia.                    | flat  | transparent/<br>translucent | blue   | <b>200-7150-W0</b> | 0,002 |
|                    |                      |                               |       |                             | yellow | <b>200-7170-W0</b> | 0,002 |
|                    |                      |                               |       |                             | green  | <b>200-7140-W0</b> | 0,002 |
|                    |                      |                               |       |                             | orange | <b>200-7110-W0</b> | 0,002 |
|                    |                      |                               |       |                             | red    | <b>200-7120-W0</b> | 0,002 |
|                    |                      |                               |       |                             | white  | <b>200-7160-W0</b> | 0,002 |



Continued on next page

|                                                      |       |            |      |                             |        |             |       |
|------------------------------------------------------|-------|------------|------|-----------------------------|--------|-------------|-------|
| lens<br>of plastic (not recommended for film insert) | IP 40 | 18 x 18 mm | flat | transparent/<br>transparent | blue   | 200-3250-00 | 0,001 |
|                                                      |       |            |      |                             | yellow | 200-3270-00 | 0,001 |
|                                                      |       |            |      |                             | green  | 200-3240-00 | 0,001 |
|                                                      |       |            |      |                             | orange | 200-3210-00 | 0,001 |
|                                                      |       |            |      |                             | red    | 200-3220-00 | 0,001 |
|                                                      |       |            |      |                             | white  | 200-3260-00 | 0,001 |
|                                                      |       | 18 x 24 mm | flat | transparent/<br>transparent | blue   | 200-5250-00 | 0,001 |
|                                                      |       |            |      |                             | yellow | 200-5270-00 | 0,001 |
|                                                      |       |            |      |                             | green  | 200-5240-00 | 0,001 |
|                                                      |       |            |      |                             | orange | 200-5210-00 | 0,001 |
|                                                      |       |            |      |                             | red    | 200-5220-00 | 0,001 |
|                                                      |       |            |      |                             | white  | 200-5260-00 | 0,001 |
|                                                      |       | 24 x 24 mm | flat | transparent/<br>transparent | blue   | 200-9250-00 | 0,001 |
|                                                      |       |            |      |                             | yellow | 200-9270-00 | 0,001 |
|                                                      |       |            |      |                             | green  | 200-9240-00 | 0,001 |
|                                                      |       |            |      |                             | orange | 200-9210-00 | 0,001 |
|                                                      |       |            |      |                             | red    | 200-9220-00 | 0,001 |
|                                                      |       |            |      |                             | white  | 200-9260-00 | 0,001 |
|                                                      |       | 18 mm dia. | flat | transparent/<br>transparent | blue   | 200-1250-00 | 0,001 |
|                                                      |       |            |      |                             | yellow | 200-1270-00 | 0,001 |
|                                                      |       |            |      |                             | green  | 200-1240-00 | 0,001 |
|                                                      |       |            |      |                             | orange | 200-1210-00 | 0,001 |
|                                                      |       |            |      |                             | red    | 200-1220-00 | 0,001 |
|                                                      |       |            |      |                             | white  | 200-1260-00 | 0,001 |
|                                                      |       | 24 mm dia. | flat | transparent/<br>transparent | blue   | 200-7250-00 | 0,001 |
|                                                      |       |            |      |                             | yellow | 200-7270-00 | 0,001 |
|                                                      |       |            |      |                             | green  | 200-7240-00 | 0,001 |
|                                                      |       |            |      |                             | orange | 200-7210-00 | 0,001 |
|                                                      |       |            |      |                             | red    | 200-7220-00 | 0,001 |
|                                                      |       |            |      |                             | white  | 200-7260-00 | 0,001 |
|                                                      | IP 65 | 24 x 24 mm | flat | transparent/<br>transparent | blue   | 200-9250-W0 | 0,002 |
|                                                      |       |            |      |                             | yellow | 200-9270-W0 | 0,002 |
|                                                      |       |            |      |                             | green  | 200-9240-W0 | 0,002 |
|                                                      |       |            |      |                             | orange | 200-9210-W0 | 0,002 |
|                                                      |       |            |      |                             | red    | 200-9220-W0 | 0,002 |
|                                                      |       |            |      |                             | white  | 200-9260-W0 | 0,002 |
|                                                      |       | 24 mm dia. | flat | transparent/<br>transparent | blue   | 200-7250-W0 | 0,002 |
|                                                      |       |            |      |                             | yellow | 200-7270-W0 | 0,002 |
|                                                      |       |            |      |                             | green  | 200-7240-W0 | 0,002 |
|                                                      |       |            |      |                             | orange | 200-7210-W0 | 0,002 |
|                                                      |       |            |      |                             | red    | 200-7220-W0 | 0,002 |
|                                                      |       |            |      |                             | white  | 200-7260-W0 | 0,002 |
| of plastic (not for film insert and illumination)    | IP 40 | 18 x 18 mm | flat | opaque/translucent          | grey   | 200-3180-00 | 0,001 |
|                                                      |       |            |      |                             | black  | 200-3190-00 | 0,001 |
|                                                      |       | 18 x 24 mm | flat | opaque/translucent          | grey   | 200-5180-00 | 0,001 |
|                                                      |       |            |      |                             | black  | 200-5190-00 | 0,001 |
|                                                      |       | 24 x 24 mm | flat | opaque/translucent          | grey   | 200-9180-00 | 0,001 |
|                                                      |       |            |      |                             | black  | 200-9190-00 | 0,001 |
|                                                      |       | 18 mm dia. | flat | opaque/translucent          | grey   | 200-1180-00 | 0,001 |
|                                                      |       |            |      |                             | black  | 200-1190-00 | 0,001 |
|                                                      |       | 24 mm dia. | flat | opaque/translucent          | grey   | 200-7180-00 | 0,001 |
|                                                      |       |            |      |                             | black  | 200-7190-00 | 0,001 |
|                                                      | IP 65 | 24 x 24 mm | flat | opaque/translucent          | grey   | 200-9180-W0 | 0,002 |
|                                                      |       |            |      |                             | black  | 200-9190-W0 | 0,002 |
|                                                      |       | 24 mm dia. | flat | opaque/translucent          | grey   | 200-7180-W0 | 0,002 |
|                                                      |       |            |      |                             | black  | 200-7190-W0 | 0,002 |

### mushroom-head cap

can only be used with front bezel 18 mm dia.

|                   | degree of protection | mushroom | colour | 18 x 24 mm<br>Typ-Nr. | 24 x 24 mm<br>Typ-Nr. | 24 mm dia.<br>Typ-Nr. | kg    |
|-------------------|----------------------|----------|--------|-----------------------|-----------------------|-----------------------|-------|
| mushroom-head cap | IP 40                | opaque   | yellow | 200-5370-00           | 200-9370-00           | 200-7370-00           | 0,005 |
|                   |                      |          | green  | 200-5340-00           | 200-9340-00           | 200-7340-00           | 0,005 |
|                   |                      |          | red    | 200-5320-00           | 200-9320-00           | 200-7320-00           | 0,005 |
|                   |                      |          | black  | 200-5390-00           | 200-9390-00           | 200-7390-00           | 0,005 |



### front cap for keylock-/selector switch 2 positions

for IP 40/IP 65, will be delivered assembled

|                                                                                                                                     | front dimension<br>pushbutton | for switching action | marking              | colour | part no.    | kg    |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------|----------------------|--------|-------------|-------|
| front cap for keylock-/selector switch 2 positions<br>plastic, for types 761-... - 772-...,<br>911-... - 925-..., 811-... - 825-... | 18 x 18 mm                    | 0 - MA               | 0 - I (90°)          | grey   | 200-3001-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-4001-00 | 0,002 |
|                                                                                                                                     | 18 x 24 mm                    | 0 - MA               | 0 - I (90°)          | grey   | 200-5001-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-6001-00 | 0,002 |
|                                                                                                                                     | 24 x 24 mm                    | 0 - MA               | 0 - I (90°)          | grey   | 200-9001-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-0001-00 | 0,002 |
|                                                                                                                                     | 18 mm dia.                    | 0 - MA               | 0 - I (90°)          | grey   | 200-1001-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-2001-00 | 0,002 |
|                                                                                                                                     | 24 mm dia.                    | 0 - MA               | 0 - I (90°)          | grey   | 200-7001-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-8001-00 | 0,002 |
| plastic, for types 781-... - 782-...,<br>931-... - 935-..., 831-... - 835-...                                                       | 18 x 18 mm                    | 0 - M                | 0 - I (60°)          | grey   | 200-3001-01 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-4001-01 | 0,002 |
|                                                                                                                                     | 18 x 24 mm                    | 0 - M                | 0 - I (60°)          | grey   | 200-5001-01 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-6001-01 | 0,002 |
|                                                                                                                                     | 24 x 24 mm                    | 0 - M                | 0 - I (60°)          | grey   | 200-9001-01 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-0001-01 | 0,002 |
|                                                                                                                                     | 18 mm dia.                    | 0 - M                | 0 - I (60°)          | grey   | 200-1001-01 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-2001-01 | 0,002 |
|                                                                                                                                     | 24 mm dia.                    | 0 - M                | 0 - I (60°)          | grey   | 200-7001-01 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-8001-01 | 0,002 |
| of plastic, fits for all types                                                                                                      | 18 x 18 mm                    | M- or MA action      | without mar-<br>king | grey   | 200-3004-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-4004-00 | 0,002 |
|                                                                                                                                     | 18 x 24 mm                    | M- or MA action      | without mar-<br>king | grey   | 200-5004-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-6004-00 | 0,002 |
|                                                                                                                                     | 24 x 24 mm                    | M- or MA action      | without mar-<br>king | grey   | 200-9004-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-0004-00 | 0,002 |
|                                                                                                                                     | 18 mm dia.                    | M- or MA action      | without mar-<br>king | grey   | 200-1004-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-2004-00 | 0,002 |
|                                                                                                                                     | 24 mm dia.                    | M- or MA action      | without mar-<br>king | grey   | 200-7004-00 | 0,002 |
|                                                                                                                                     |                               |                      |                      | black  | 200-8004-00 | 0,002 |



front cap for keylock-/selector switch 3 positions

for IP 40/IP 65, will be delivered assembled

|                                                                                 | front dimension | for switching action | marking                | colour | part no.           |       |
|---------------------------------------------------------------------------------|-----------------|----------------------|------------------------|--------|--------------------|-------|
| front cap for keylock-/selector switch 3 positions<br>plastic, for type 712-... | 18 x 18 mm      | M - 0 - M            | I (90°) - 0 - II (90°) | grey   | <b>200-3002-00</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-4002-00</b> | 0,002 |
|                                                                                 | 18 x 24 mm      | M - 0 - M            | I (90°) - 0 - II (90°) | grey   | <b>200-5002-00</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-6002-00</b> | 0,002 |
|                                                                                 | 24 x 24 mm      | M - 0 - M            | I (90°) - 0 - II (90°) | grey   | <b>200-9002-00</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-0002-00</b> | 0,002 |
|                                                                                 | 18 mm dia.      | M - 0 - M            | I (90°) - 0 - II (90°) | grey   | <b>200-1002-00</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-2002-00</b> | 0,002 |
|                                                                                 | 24 mm dia.      | M - 0 - M            | I (90°) - 0 - II (90°) | grey   | <b>200-7002-00</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-8002-00</b> | 0,002 |
| plastic, for type 722-...                                                       | 18 x 18 mm      | 0 - M - M            | 0 (90°) - I - II (90°) | grey   | <b>200-3003-01</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-4003-01</b> | 0,002 |
|                                                                                 | 18 x 24 mm      | 0 - M - M            | 0 (90°) - I - II (90°) | grey   | <b>200-5003-01</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-6003-01</b> | 0,002 |
|                                                                                 | 24 x 24 mm      | 0 - M - M            | 0 (90°) - I - II (90°) | grey   | <b>200-9003-01</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-0003-01</b> | 0,002 |
|                                                                                 | 18 mm dia.      | 0 - M - M            | 0 (90°) - I - II (90°) | grey   | <b>200-1003-01</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-2003-01</b> | 0,002 |
|                                                                                 | 24 mm dia.      | 0 - M - M            | 0 (90°) - I - II (90°) | grey   | <b>200-7003-01</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-8003-01</b> | 0,002 |
| plastic, for type 732-...                                                       | 18 x 18 mm      | M - 0 - M            | I (60°) - 0 - II (60°) | grey   | <b>200-3002-02</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-4002-02</b> | 0,002 |
|                                                                                 | 18 x 24 mm      | M - 0 - M            | I (60°) - 0 - II (60°) | grey   | <b>200-5002-02</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-6002-02</b> | 0,002 |
|                                                                                 | 24 x 24 mm      | M - 0 - M            | I (60°) - 0 - II (60°) | grey   | <b>200-9002-02</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-0002-02</b> | 0,002 |
|                                                                                 | 18 mm dia.      | M - 0 - M            | I (60°) - 0 - II (60°) | grey   | <b>200-1002-02</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-2002-02</b> | 0,002 |
|                                                                                 | 24 mm dia.      | M - 0 - M            | I (60°) - 0 - II (60°) | grey   | <b>200-7002-02</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-8002-02</b> | 0,002 |
| plastic, for type 742-...                                                       | 18 x 18 mm      | MA - 0 - M           | I (90°) - 0 - II (60°) | grey   | <b>200-3002-03</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-4002-03</b> | 0,002 |
|                                                                                 | 18 x 24 mm      | MA - 0 - M           | I (90°) - 0 - II (60°) | grey   | <b>200-5002-03</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-6002-03</b> | 0,002 |
|                                                                                 | 24 x 24 mm      | MA - 0 - M           | I (90°) - 0 - II (60°) | grey   | <b>200-9002-03</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-0002-03</b> | 0,002 |
|                                                                                 | 18 mm dia.      | MA - 0 - M           | I (90°) - 0 - II (60°) | grey   | <b>200-1002-03</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-2002-03</b> | 0,002 |
|                                                                                 | 24 mm dia.      | MA - 0 - M           | I (90°) - 0 - II (60°) | grey   | <b>200-7002-03</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-8002-03</b> | 0,002 |
| plastic, for type 752-...                                                       | 18 x 18 mm      | M - 0 - MA           | I (60°) - 0 - II (90°) | grey   | <b>200-3002-04</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-4002-04</b> | 0,002 |
|                                                                                 | 18 x 24 mm      | M - 0 - MA           | I (60°) - 0 - II (90°) | grey   | <b>200-5002-04</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-6002-04</b> | 0,002 |
|                                                                                 | 24 x 24 mm      | M - 0 - MA           | I (60°) - 0 - II (90°) | grey   | <b>200-9002-04</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-0002-04</b> | 0,002 |
|                                                                                 | 18 mm dia.      | M - 0 - MA           | I (60°) - 0 - II (90°) | grey   | <b>200-1002-04</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-2002-04</b> | 0,002 |
|                                                                                 | 24 mm dia.      | M - 0 - MA           | I (60°) - 0 - II (90°) | grey   | <b>200-7002-04</b> | 0,002 |
|                                                                                 |                 |                      |                        | black  | <b>200-8002-04</b> | 0,002 |



Continued on next page

|                                                                                      |            |                 |                 |       |             |       |
|--------------------------------------------------------------------------------------|------------|-----------------|-----------------|-------|-------------|-------|
| front cap for keylock-/selector switch 3 positions<br>of plastic, fits for all types | 18 x 18 mm | M- or MA action | without marking | grey  | 200-3004-00 | 0,002 |
|                                                                                      |            |                 |                 | black | 200-4004-00 | 0,002 |
|                                                                                      | 18 x 24 mm | M- or MA action | without marking | grey  | 200-5004-00 | 0,002 |
|                                                                                      |            |                 |                 | black | 200-6004-00 | 0,002 |
|                                                                                      | 24 x 24 mm | M- or MA action | without marking | grey  | 200-9004-00 | 0,002 |
|                                                                                      |            |                 |                 | black | 200-0004-00 | 0,002 |
|                                                                                      | 18 mm dia. | M- or MA action | without marking | grey  | 200-1004-00 | 0,002 |
|                                                                                      |            |                 |                 | black | 200-2004-00 | 0,002 |
|                                                                                      | 24 mm dia. | M- or MA action | without marking | grey  | 200-7004-00 | 0,002 |
|                                                                                      |            |                 |                 | black | 200-8004-00 | 0,002 |

## lever

will be delivered assembled

|       | construction | colour          | part no.    | kg    |
|-------|--------------|-----------------|-------------|-------|
| lever | short        | black           | 200-.704-00 | 0,001 |
|       |              | chromium-plated | 200-.604-00 | 0,001 |
|       | long         | black           | 200-.904-00 | 0,001 |
|       |              | chromium-plated | 200-.804-00 | 0,001 |



## buzzer element

|                | voltage    | colour | 18 x 24 mm<br>Typ-Nr. | 24 x 24 mm<br>Typ-Nr. | kg    |
|----------------|------------|--------|-----------------------|-----------------------|-------|
| buzzer element | 6 V AC/DC  | grey   | 970-5006-00           | 970-9006-00           | 0,004 |
|                |            | black  | 970-6006-00           | 970-0006-00           | 0,004 |
|                | 12 V AC/DC | grey   | 970-5012-00           | 970-9012-00           | 0,004 |
|                |            | black  | 970-6012-00           | 970-0012-00           | 0,004 |
|                | 24 V AC/DC | grey   | 970-5024-00           | 970-9024-00           | 0,004 |
|                |            | black  | 970-6024-00           | 970-0024-00           | 0,004 |



## push-pull knob

|                | knob        | colour | part no.    | kg    |
|----------------|-------------|--------|-------------|-------|
| push-pull knob | transparent | blue   | 200-.255-00 | 0,003 |
|                |             | yellow | 200-.275-00 | 0,003 |
|                |             | green  | 200-.245-00 | 0,003 |
|                |             | red    | 200-.225-00 | 0,003 |
|                |             | white  | 200-.265-00 | 0,003 |



## front bezel for illuminated-/pushbutton 55 - 70 mm and indicator 30 - 70 mm

|                                                                             | degree of protection | front dimension | material | colour | part no.    | kg    |
|-----------------------------------------------------------------------------|----------------------|-----------------|----------|--------|-------------|-------|
| front bezel for illuminated-/pushbutton 55 - 70 mm and indicator 30 - 70 mm | IP 40                | 18 x 18 mm      | plastic  | grey   | 200-3000-00 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-4000-00 | 0,002 |
|                                                                             |                      | 18 x 24 mm      | plastic  | grey   | 200-5000-00 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-6000-00 | 0,002 |
|                                                                             |                      | 24 x 24 mm      | plastic  | grey   | 200-9000-00 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-0000-00 | 0,002 |
|                                                                             |                      | 18 mm dia.      | plastic  | grey   | 200-1000-00 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-2000-00 | 0,002 |
|                                                                             |                      | 24 mm dia.      | plastic  | grey   | 200-7000-00 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-8000-00 | 0,002 |
|                                                                             | IP 65                | 24 x 24 mm      | plastic  | grey   | 200-9000-W0 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-0000-W0 | 0,002 |
|                                                                             |                      | 24 mm dia.      | plastic  | grey   | 200-7000-W0 | 0,002 |
|                                                                             |                      |                 |          | black  | 200-8000-W0 | 0,002 |



### front bezel for mushroom-head pushbutton 55 - 70 mm

|                                                     | degree of protection | material | colour | 18 mm dia.<br>Typ-Nr. |  |
|-----------------------------------------------------|----------------------|----------|--------|-----------------------|-------------------------------------------------------------------------------------|
| front bezel for mushroom-head pushbutton 55 - 70 mm | IP 40                | plastic  | grey   | <b>200-1000-00</b>    | 0,002                                                                               |
|                                                     |                      |          | black  | <b>200-2000-00</b>    | 0,002                                                                               |



### front bezel for buzzer 30 - 55 mm

|                                   | degree of protection | material | colour |  18 x 24 mm<br>Typ-Nr. |  24 x 24 mm<br>Typ-Nr. |  |
|-----------------------------------|----------------------|----------|--------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| front bezel for buzzer 30 - 55 mm | IP 40                | plastic  | grey   | <b>200-5000-00</b>                                                                                      | <b>200-9000-00</b>                                                                                        | 0,002                                                                               |
|                                   |                      |          | black  | <b>200-6000-00</b>                                                                                      | <b>200-0000-00</b>                                                                                        | 0,002                                                                               |



### front bezel-set for flush mounting

to us as IP 40: cut off (with knife) the anti-twisting at the front bezel/actuator

|                                                  | degree of protection | material | colour |  18 x 24 mm<br>Typ-Nr. |  18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. |  |
|--------------------------------------------------|----------------------|----------|--------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| front bezel-set for flush mounting<br>24 x 24 mm | IP 40/IP 65          | plastic  | black  |                                                                                                         | <b>200-4400-V0</b>                                                                                      |                       | 0,007                                                                               |
| 24 x 30 mm                                       | IP 40/IP 65          | plastic  | black  | <b>200-6400-V0</b>                                                                                      |                                                                                                         |                       | 0,008                                                                               |
| 25 mm dia.                                       | IP 40/IP 65          | plastic  | black  |                                                                                                         |                                                                                                         | <b>200-8400-V0</b>    | 0,006                                                                               |



### front bezel set for flush mounting for buzzer

to us as IP 40: cut off (with knife) the anti-twisting at the front bezel/actuator

|                                                             | degree of protection | material | colour |  18 x 24 mm<br>Typ-Nr. |  |
|-------------------------------------------------------------|----------------------|----------|--------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| front bezel set for flush mounting for buzzer<br>24 x 30 mm | IP 40                | plastic  | black  | <b>200-6400-V0</b>                                                                                          | 0,008                                                                                 |



### protective cover for 35 mm

for pushbuttons 35 mm

|                                                                           | degree of protection |  18 x 24 mm<br>Typ-Nr. |  18 x 18 mm<br>Typ-Nr. | technical drawing |  |
|---------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|
| protective cover for 35 mm<br>hinged, transparent, with means for sealing | IP 40                | <b>200-6008-00</b>                                                                                        | <b>200-4008-00</b>                                                                                        | 58                | 0,002                                                                                 |
|                                                                           | IP 65                | <b>200-6008-W0</b>                                                                                        | <b>200-4008-W0</b>                                                                                        | 58                | 0,002                                                                                 |



technical drawings from page 642



protective cover for illuminated-/pushbutton 55 - 70 mm

|                                                                                                                                                                                                         | degree of protection | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. | 24 x 24 mm<br>Typ-Nr. | technical drawing |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|-----------------------|-----------------------|-------------------|-------|
| <b>protective cover for illuminated-/pushbutton 55 - 70 mm</b><br>hinged, transparent, not with means for sealing, for use as IP 40: cut off (with knife) the anti-twisting at the front bezel/actuator | IP 40/IP 65          |                       |                       | <b>200-0008-W0</b>    | 58                | 0,006 |
| hinged, transparent, with means for sealing                                                                                                                                                             | IP 40                | <b>200-6008-00</b>    | <b>200-4008-00</b>    |                       | 58                | 0,005 |



technical drawings from page 642

protective cover for flush mounting

to us as IP 40: cut off (with knife) the anti-twisting at the front bezel/actuator

|                                                                                                     | degree of protection | use                                       | material | colour | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. |       |
|-----------------------------------------------------------------------------------------------------|----------------------|-------------------------------------------|----------|--------|-----------------------|-----------------------|-------|
| <b>protective cover for flush mounting</b><br>24x24 mm, hinged, transparent, with means for sealing | IP 40/IP65           | for illuminated pushbutton/keylock switch | plastic  | black  |                       | <b>200-4408-V0</b>    | 0,006 |
| 24x30 mm, hinged, transparent, with means for sealing                                               | IP 40/IP65           | for illuminated pushbutton/keylock switch | plastic  | black  | <b>200-6408-V0</b>    |                       | 0,006 |



sprayproof cover

|                                                                                                           | material | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. |       |
|-----------------------------------------------------------------------------------------------------------|----------|-----------------------|-----------------------|-------|
| <b>sprayproof cover</b><br>24x24 mm, two-part, protection IP 65, illumination exchangeable from the front | PVC      |                       | <b>200-3009-W0</b>    | 0,003 |
| 24x30 mm, two-part, protection IP 65, illumination exchangeable from the front                            | silicone | <b>200-5009-W0</b>    |                       | 0,003 |



protective guard for illuminated-/pushbutton

for mounting depth 55/70 mm

|                                                                                                | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. |       |
|------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-----------------------|-------|
| <b>protective guard for illuminated-/pushbutton</b><br>aluminium anodized colourless, 18x20 mm |                       | <b>200-3007-00</b>    |                       | 0,002 |
| aluminium anodized colourless, 20x24 mm                                                        | <b>200-5007-00</b>    |                       |                       | 0,002 |
| aluminium anodized colourless, 20 mm dia.                                                      |                       |                       | <b>200-1007-00</b>    | 0,002 |



## pressure ring

for indicator IP 65, mounting depth 30/45 mm, obligatory

|                                                                        | part no.           |  |
|------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|
| <b>pressure ring</b><br>plastic suitable for 24 dia. mm and 24 x 24 mm | <b>200-8009-W0</b> | 0,001                                                                               |



## sealing ring

for front bezel IP 65, 24 dia. mm and 24 x 24 mm

|                     | degree of protection | material | part no.           |  |
|---------------------|----------------------|----------|--------------------|-------------------------------------------------------------------------------------|
| <b>sealing ring</b> | IP 65                | silicone | <b>200-9009-W0</b> | 0,001                                                                               |



## sealing bulb

for lens IP65, 24 dia. mm and 24 x 24 mm

|                     | degree of protection | material | part no.           |  |
|---------------------|----------------------|----------|--------------------|-------------------------------------------------------------------------------------|
| <b>sealing bulb</b> | IP 65                | silicone | <b>200-7009-W0</b> | 0,001                                                                               |



## blind plug for 35 mm

for lenses and pushbuttons 35 mm

|                                                                  | degree of protection | colour |  18 x 24 mm<br>Typ-Nr. |  18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. |  |
|------------------------------------------------------------------|----------------------|--------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|
| <b>blind plug for 35 mm</b><br>for mounting hole 16.2 mm<br>dia. | IP 40                | grey   | <b>200-5006-00</b>                                                                                      | <b>200-3006-00</b>                                                                                      | <b>200-1006-00</b>    | 0,003                                                                               |
|                                                                  |                      | black  | <b>200-6006-00</b>                                                                                      | <b>200-4006-00</b>                                                                                      | <b>200-2006-00</b>    | 0,003                                                                               |
|                                                                  | IP 65                | black  | <b>200-6006-W0</b>                                                                                      | <b>200-4006-W0</b>                                                                                      | <b>200-2006-W0</b>    | 0,003                                                                               |



## blind plug

for lenses and pushbuttons 30/45/55/70 mm

|                                                 | degree of protection | colour | 18 x 24 mm<br>Typ-Nr. | 18 x 18 mm<br>Typ-Nr. | 18 mm dia.<br>Typ-Nr. | 24 x 24 mm<br>Typ-Nr. | kg    |
|-------------------------------------------------|----------------------|--------|-----------------------|-----------------------|-----------------------|-----------------------|-------|
| blind plug<br>for mounting hole<br>16.2 mm dia. | IP 40                | grey   | 200-5006-00           | 200-3006-00           | 200-1006-00           |                       | 0,003 |
|                                                 |                      | black  | 200-6006-00           | 200-4006-00           | 200-2006-00           |                       | 0,003 |
|                                                 | IP 65                | black  | 200-6006-W0           | 200-4006-W0           | 200-2006-W0           | 200-0006-W0           | 0,003 |



## spare key

add to the part no., the engraved lock no.

|                                                            | use                                                     | part no.    | kg    |
|------------------------------------------------------------|---------------------------------------------------------|-------------|-------|
| spare key<br>for standard lock 1001                        | for emergency stop switch foolproof with key to release | 240-4001-00 | 0,005 |
| for standard lock B2 300, other lock numbers<br>on request | for keylock switch                                      | 240-2001-00 | 0,005 |
| for standard lock B2 390, other lock numbers<br>on request | for emergency stop switch with key to release           | 240-3001-00 | 0,005 |



At ordering indicate marked lock no.

## at back

## snap-action switching element block for 35 mm

for pushbuttons 35 mm

|                                               | contacts        | connection method | part no.    | circuit drawing | component layout | kg    |
|-----------------------------------------------|-----------------|-------------------|-------------|-----------------|------------------|-------|
| snap-action switching element block for 35 mm | 1 NC + 1 NO     | -                 | 601-0000-00 | 56              |                  | 0,006 |
|                                               |                 | P                 | 601-0000-0P | 56              | 1                | 0,006 |
|                                               | 1 NC + 1 NO + 1 | -                 | 608-0000-00 | 58              |                  | 0,006 |
|                                               |                 | P                 | 608-0000-0P | 58              | 1                | 0,006 |
|                                               | 1 NC + 1 NO + 2 | -                 | 609-0000-00 | 59              |                  | 0,006 |
|                                               |                 | P                 | 609-0000-0P | 59              | 1                | 0,006 |
|                                               | 2 NC + 2 NO     | -                 | 602-0000-00 | 57              |                  | 0,006 |
|                                               |                 | P                 | 602-0000-0P | 57              | 1                | 0,006 |



circuit drawings from page 657, component layouts from page 657

### lamp element block for 35 mm

for indicator 35 mm

|                              | diodes | connection method | part no.           | circuit drawing | component layout |       |
|------------------------------|--------|-------------------|--------------------|-----------------|------------------|-------|
| lamp element block for 35 mm | 0      | -                 | <b>600-0000-00</b> | 1               |                  | 0,005 |
|                              |        | P                 | <b>600-0000-0P</b> | 1               | 1                | 0,005 |
|                              | 1      | -                 | <b>606-0000-00</b> | 60              |                  | 0,006 |
|                              |        | P                 | <b>606-0000-0P</b> | 60              | 1                | 0,006 |
|                              | 2      | -                 | <b>607-0000-00</b> | 61              |                  | 0,006 |
|                              |        | P                 | <b>607-0000-0P</b> | 61              | 1                | 0,006 |



circuit drawings from page 657, component layouts from page 657

### blind element

|                        | part no.           |       |
|------------------------|--------------------|-------|
| blind element<br>white | <b>202-0600-00</b> | 0,002 |



### lamp terminal

|               | use                             | part no.           |       |
|---------------|---------------------------------|--------------------|-------|
| lamp terminal | for soldering-/plug-in terminal | <b>270-0000-00</b> | 0,001 |
|               | for PCB terminal                | <b>270-0000-0P</b> | 0,001 |



### intermediate section

|                                          | use                                         | part no.           |       |
|------------------------------------------|---------------------------------------------|--------------------|-------|
| intermediate section<br>incl. fixing nut | for illuminated pushbutton 55 mm MG T 1 3/4 | <b>260-9000-00</b> | 0,005 |
|                                          | for illuminated pushbutton 70 mm T 5.5      | <b>260-8000-00</b> | 0,008 |



### snap-action switching element

|                               | contacts    | colour | connection method | material of contacts | part no.           | technical drawing |       |
|-------------------------------|-------------|--------|-------------------|----------------------|--------------------|-------------------|-------|
| snap-action switching element | 1 NC + 1 NO | blue   | -                 | gold plated          | <b>201-0500-00</b> | 59                | 0,003 |
|                               |             | grey   | -                 | gold plated          | <b>201-0800-00</b> | 59                | 0,003 |
|                               |             |        | P                 | gold plated          | <b>221-0800-0P</b> | 59                | 0,003 |
|                               |             | green  | -                 | gold plated          | <b>201-0400-00</b> | 59                | 0,003 |



technical drawings from page 642

### holder for 2 switching elements

|                                 | use                                                  | material | part no.           |  |
|---------------------------------|------------------------------------------------------|----------|--------------------|-------------------------------------------------------------------------------------|
| holder for 2 switching elements | push-pull illuminated switch                         | plastic  | <b>270-2000-00</b> | 0,001                                                                               |
|                                 | for pushbutton 35 mm, keylock-/selector switch 45 mm | plastic  | <b>270-3000-00</b> | 0,001                                                                               |



### holder for 3 switching elements

|                                 | use                                   | material        | part no.           |  |
|---------------------------------|---------------------------------------|-----------------|--------------------|-------------------------------------------------------------------------------------|
| holder for 3 switching elements | for illuminated-/pushbuttons 55-70 mm | stainless steel | <b>270-1000-00</b> | 0,001                                                                               |



### spring with pin

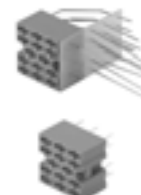
for maintained version at the intermediate section

|                 | use                                 | part no.           |  |
|-----------------|-------------------------------------|--------------------|-------------------------------------------------------------------------------------|
| spring with pin | for illuminated pushbutton 55/70 mm | <b>260-0010-00</b> | 0,001                                                                               |



### PCB plug-in base

|                                                                                      | for                          | pin orientation | part no.           |  |
|--------------------------------------------------------------------------------------|------------------------------|-----------------|--------------------|-------------------------------------------------------------------------------------|
| PCB plug-in base<br>lamp terminal 0.5 mikron Au<br>incl. lamp terminal 0.5 mikron Au | indicator 35/55/70 mm        | angled          | <b>280-0200-00</b> | 0,006                                                                               |
|                                                                                      |                              | straight        | <b>280-0100-00</b> | 0,005                                                                               |
|                                                                                      | 1NC + 1NO for 35/45 mm       | angled          | <b>280-1210-00</b> | 0,006                                                                               |
|                                                                                      |                              | straight        | <b>280-1110-00</b> | 0,005                                                                               |
|                                                                                      | 1NC + 1NO for 55/70 mm       | angled          | <b>280-1200-00</b> | 0,006                                                                               |
|                                                                                      |                              | straight        | <b>280-1100-00</b> | 0,005                                                                               |
|                                                                                      | 2NC + 2NO for 35/45/55/70 mm | angled          | <b>280-2200-00</b> | 0,006                                                                               |
|                                                                                      |                              | straight        | <b>280-2100-00</b> | 0,005                                                                               |
|                                                                                      | 3NC + 3NO for 55/70 mm       | angled          | <b>280-3200-00</b> | 0,006                                                                               |
|                                                                                      |                              | straight        | <b>280-3100-00</b> | 0,005                                                                               |



### multi-plug housing

|                                                                                                                          | part no.           |  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| multi-plug housing<br>for flat connector with locating tongue with 14 terminal possibilities, 10 terminals plugable max. | <b>280-0000-00</b> | 0,002                                                                                 |



### cable shoe

|                                                             | use                                  | locating tongue | wire cross-section of terminal | connection method | part no.           |  |
|-------------------------------------------------------------|--------------------------------------|-----------------|--------------------------------|-------------------|--------------------|---------------------------------------------------------------------------------------|
| cable shoe                                                  | for multi-plug housing (280-0000-00) | with            | 0.1 - 0.25 mm&                 | - 2.8 x 0.5 mm    | <b>280-0001-00</b> | 0,001                                                                                 |
|                                                             |                                      |                 | 0.5 - 1.00 mm&                 | - 2.8 x 0.5 mm    | <b>280-0002-00</b> | 0,001                                                                                 |
| as per VDE 0630<br>use with insulation socket (280-0010-00) | for insulation socket (280-0010-00)  | without         | 0.2 - 0.75 mm&                 | - 2.8 x 0.5 mm    | <b>280-0003-00</b> | 0,001                                                                                 |



## connector with two outputs

|                            | use                          | connection method | part no.           |  |
|----------------------------|------------------------------|-------------------|--------------------|-------------------------------------------------------------------------------------|
| connector with two outputs | for cable shoe (280-0003-00) | - 2.8 x 0.5 mm    | <b>280-0004-00</b> | 0,001                                                                               |



## insulation socket

|                                                                          | part no.           |  |
|--------------------------------------------------------------------------|--------------------|-------------------------------------------------------------------------------------|
| insulation socket<br>for connector without locating tongue (280-0003-00) | <b>280-0010-00</b> | 0,001                                                                               |



## for illumination

### filament lamp MG T 1 3/4

|                          | voltage/current | part no.            |  |
|--------------------------|-----------------|---------------------|-------------------------------------------------------------------------------------|
| filament lamp MG T 1 3/4 | 14 V / 80 mA    | <b>10-1310.1319</b> | 0,001                                                                               |
|                          | 28 V / 40 mA    | <b>10-1313.1249</b> | 0,001                                                                               |
|                          | 36 V / 30 mA    | <b>10-1316.1209</b> | 0,001                                                                               |
|                          | 48 V / 25 mA    | <b>10-1319.1199</b> | 0,001                                                                               |
|                          | 6.3 V / 200 mA  | <b>10-1307.1369</b> | 0,001                                                                               |
|                          | 60 V / 20 mA    | <b>10-1320.1179</b> | 0,001                                                                               |



### filament lamp T 5.5

|                     | voltage/current | part no.            |  |
|---------------------|-----------------|---------------------|---------------------------------------------------------------------------------------|
| filament lamp T 5.5 | 6 V / 200 mA    | <b>10-1106.1369</b> | 0,001                                                                                 |
|                     | 12 V / 100 mA   | <b>10-1109.1329</b> | 0,001                                                                                 |
|                     | 24 V / 50 mA    | <b>10-1112.1279</b> | 0,001                                                                                 |
|                     | 36 V / 35 mA    | <b>10-1116.1229</b> | 0,001                                                                                 |
|                     | 48 V / 25 mA    | <b>10-1119.1199</b> | 0,001                                                                                 |



### LED MG T 1 3/4

|                                                                                                                                                                                                                                                                      | number of chips | voltage/current  | colour | part no.            |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|--------|---------------------|---------------------------------------------------------------------------------------|
| <b>LED MG T 1 3/4</b><br>with built-in protective diode<br><br><b>Note:</b><br>For optimal illumination we strongly recommend using our new single-chip LEDs.<br><br>For new designs, only the new single-chip LEDs should be chosen. They can be found on page 669. | 6               | 6 VDC / 45 mA    | yellow | <b>10-5306.3254</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | green  | <b>10-5306.3255</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | red    | <b>10-5306.3252</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 | 12 VDC / 25 mA   | yellow | <b>10-5309.3204</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | green  | <b>10-5309.3205</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | red    | <b>10-5309.3202</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 | 24 VDC / 12.5 mA | yellow | <b>10-5312.3134</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | green  | <b>10-5312.3135</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | red    | <b>10-5312.3132</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 | 48 VDC / 12.5 mA | yellow | <b>10-5319.3104</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | green  | <b>10-5319.3105</b> | 0,001                                                                                 |
|                                                                                                                                                                                                                                                                      |                 |                  | red    | <b>10-5319.3102</b> | 0,001                                                                                 |



## LED T 5.5

|                                                                                                                                                                                                                                                                 | number of chips | voltage/current  | colour | part no.            |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|--------|---------------------|-------------------------------------------------------------------------------------|
| <b>LED T 5.5</b><br>with built-in protective diode<br><br><b>Note:</b><br>For optimal illumination we strongly recommend using our new single-chip LEDs.<br><br>For new designs, only the new single-chip LEDs should be chosen. They can be found on page 669. | 6               | 6 VDC / 45 mA    | yellow | <b>10-5106.3254</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | green  | <b>10-5106.3255</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | red    | <b>10-5106.3252</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 | 12 VDC / 25 mA   | yellow | <b>10-5109.3204</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | green  | <b>10-5109.3205</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | red    | <b>10-5109.3202</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 | 24 VDC / 12.5 mA | yellow | <b>10-5112.3144</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | green  | <b>10-5112.3145</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | red    | <b>10-5112.3142</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 | 48 VDC / 12.5 mA | yellow | <b>10-5119.3134</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | green  | <b>10-5119.3135</b> | 0,001                                                                               |
|                                                                                                                                                                                                                                                                 |                 |                  | red    | <b>10-5119.3132</b> | 0,001                                                                               |



## diode element

|                                       | diodes | colour | connection method | part no.           |  |
|---------------------------------------|--------|--------|-------------------|--------------------|-------------------------------------------------------------------------------------|
| <b>diode element</b><br>diode 1N/4007 | 1      | red    | -                 | <b>212-0100-00</b> | 0,003                                                                               |
|                                       |        |        | P                 | <b>222-0100-0P</b> | 0,003                                                                               |
|                                       | 2      | red    | -                 | <b>213-0100-00</b> | 0,003                                                                               |
|                                       |        |        | P                 | <b>214-0100-0P</b> | 0,003                                                                               |



## capacitor

for lamp voltage reduction

|                                                             | value              | part no.           |  |
|-------------------------------------------------------------|--------------------|--------------------|---------------------------------------------------------------------------------------|
| <b>capacitor</b><br>use with 60 V/20 mA, 50 Hz lamp voltage | 220 V/0.27 $\mu$ F | <b>300-0090-00</b> | 0,004                                                                                 |



Please keep to the country specific security rules.

## series resistor

for lamp voltage reduction

|                                                             | value                  | part no.           |  |
|-------------------------------------------------------------|------------------------|--------------------|---------------------------------------------------------------------------------------|
| <b>series resistor</b><br>use with 60 V / 20 mA lamp rating | 100 V / 2.7 k $\Omega$ | <b>300-0010-00</b> | 0,003                                                                                 |
|                                                             | 125 V / 3.3 k $\Omega$ | <b>300-0020-00</b> | 0,003                                                                                 |
|                                                             | 145 V / 4.7 k $\Omega$ | <b>300-0030-00</b> | 0,003                                                                                 |
|                                                             | 230 V / 8.2 k $\Omega$ | <b>300-0040-00</b> | 0,003                                                                                 |
|                                                             | 240 V / 10 k $\Omega$  | <b>300-0050-00</b> | 0,003                                                                                 |



Please keep to the country specific security rules.

## terminal plate empty

for fitting with series resistors and capacitors

|                                                 | no. of spaces | part no.           |  |
|-------------------------------------------------|---------------|--------------------|---------------------------------------------------------------------------------------|
| <b>terminal plate empty</b><br>125 x 60 x 15 mm | 10 spaces     | <b>300-0110-00</b> | 0,045                                                                                 |
| 187.5 x 60 x 15 mm                              | 15 spaces     | <b>300-0115-00</b> | 0,090                                                                                 |
| 250 x 60 x 15 mm                                | 20 spaces     | <b>300-0120-00</b> | 0,095                                                                                 |
| 62.5 x 60 x 15 mm                               | 5 spaces      | <b>300-0105-00</b> | 0,025                                                                                 |



for emergency stop switch

label for emergency stop switch

|                                                                           | degree of protection | marking    | 43 mm dia.<br>Typ-Nr. |  |
|---------------------------------------------------------------------------|----------------------|------------|-----------------------|-------------------------------------------------------------------------------------|
| label for emergency stop switch<br>yellow, other constructions on request | IP 40                | in German  | <b>200-1300-02</b>    | 0,002                                                                               |
|                                                                           |                      | in English | <b>200-1300-03</b>    | 0,002                                                                               |
|                                                                           |                      | in French  | <b>200-1300-04</b>    | 0,002                                                                               |
|                                                                           |                      | without    | <b>200-1300-01</b>    | 0,002                                                                               |
|                                                                           | IP 65                | in German  | <b>200-1300-W2</b>    | 0,002                                                                               |
|                                                                           |                      | in English | <b>200-1300-W3</b>    | 0,002                                                                               |
|                                                                           |                      | in French  | <b>200-1300-W4</b>    | 0,002                                                                               |
|                                                                           |                      | without    | <b>200-1300-W1</b>    | 0,002                                                                               |



slow-make switching element for emergency stop switch

|                                                       | contacts | colour | connection method | material of contacts | part no.           | technical drawing |  |
|-------------------------------------------------------|----------|--------|-------------------|----------------------|--------------------|-------------------|---------------------------------------------------------------------------------------|
| slow-make switching element for emergency stop switch | 1 NC     | grey   | -                 | gold plated          | <b>211+0800-00</b> | 60                | 0,003                                                                                 |
|                                                       |          |        | P                 | gold plated          | <b>231+0800-0P</b> | 60                | 0,003                                                                                 |



technical drawings from page 642

dismantling tool for emergency stop switch foolproof

|                                                      | part no.           |  |
|------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| dismantling tool for emergency stop switch foolproof | <b>300-0017-00</b> | 0,004                                                                                 |



assembling

fixing nut

for standard mounting

|                       | use                         | panel thickness | colour | part no.           |  |
|-----------------------|-----------------------------|-----------------|--------|--------------------|---------------------------------------------------------------------------------------|
| fixing nut<br>plastic | for mounting depth 30-70 mm | 1-3 mm          | grey   | <b>260-0001-00</b> | 0,001                                                                                 |
|                       |                             | 3-5 mm          | grey   | <b>260-0002-00</b> | 0,001                                                                                 |
|                       |                             | 5-7 mm          | grey   | <b>260-0005-00</b> | 0,001                                                                                 |
|                       | for mounting depth 35 mm    | 1-3 mm          | black  | <b>260-0003-00</b> | 0,001                                                                                 |
|                       |                             |                 |        |                    |                                                                                       |





## fixing nut for flush mounting

|                                          | use                         | panel thickness | colour | part no.           |  |
|------------------------------------------|-----------------------------|-----------------|--------|--------------------|-------------------------------------------------------------------------------------|
| fixing nut for flush mounting<br>plastic | for mounting depth 41/44 mm | 1-3 mm          | black  | <b>260-0003-00</b> | 0,001                                                                               |
|                                          | for mounting depth 39-79 mm | 3-5 mm          | grey   | <b>260-0002-00</b> | 0,001                                                                               |



## location strip

for indicators, illuminated/push buttons, push-pull illuminated button, buzzer, mushroom-head cap, key and selector switches and emergency button 55-70 mm IP 40 / IP 65 designs

|                                                                    | use              | part no.           |  |
|--------------------------------------------------------------------|------------------|--------------------|-------------------------------------------------------------------------------------|
| location strip<br>anti-twisting, in-line arrays or single switches | graduation 18 mm | <b>260-0020-00</b> | 0,001                                                                               |
|                                                                    | graduation 24 mm | <b>260-0021-00</b> | 0,001                                                                               |



## lens remover

|              | part no.           |  |
|--------------|--------------------|-------------------------------------------------------------------------------------|
| lens remover | <b>300-0001-00</b> | 0,012                                                                               |



## lamp/LED remover

|                  | part no.           |  |
|------------------|--------------------|-------------------------------------------------------------------------------------|
| lamp/LED remover | <b>300-0002-00</b> | 0,003                                                                               |

Warning:  
when replacing lamps/LED a switching process can be triggered!



## mounting tool

|                                                                                          | part no.           |  |
|------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| mounting tool<br>for tightening (or loosening) fixing nuts (at dismantled element block) | <b>300-0003-00</b> | 0,007                                                                                 |



## contact element pliers

for block mounting

|                                                                                                          | part no.           |  |
|----------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| contact element pliers<br>for dismantling the switching elements off the holder for 3 switching elements | <b>300-0005-00</b> | 0,013                                                                                 |



## jaw spanner

|                                                                                                                          | part no.           |  |
|--------------------------------------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| jaw spanner<br>for tightening (or loosening) fixing nuts and dismantling of the element blocks (mounting depth 35-70 mm) | <b>300-0004-00</b> | 0,003                                                                                 |



## cable shoe remover

|                                                                                            | part no.           |  |
|--------------------------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------------------------|
| cable shoe remover<br>for removing the connector from the multi-plug housing (280-0000-00) | <b>300-0006-00</b> | 0,001                                                                                 |



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 DIN EN 60947-5-1.

Materials

Mushroom-head cap  
Polyamide PA

Actuator housing  
Polyetherimide PEI, self-extinguishing

Switching element  
Polyamide PA  
Polysulfone PSU

Contact material  
Silver

Connections

Solder/plug-in terminal  
max. wire diameter: 2 wires of 1 mm  
max. wire cross-section: 1 strand at 0.75 mm²

Connection  
2.8 x 0.5 mm

Mechanical characteristic values

Actuating travel  
EMERGENCY button 10 mm

Actuating force  
max. 65 N (measured on mushroom-head cap of emergency button)

Self-aligning torque  
15 Ncm

Shock resistance  
(single impact, half-sinusoidal)  
50 g, 11 ms as per IEC 512-4

Resistance to vibration  
(sinusoidal)  
10 g, at 10- 2000- 10- Hz  
Amplitude 0.75 mm as per IEC 512-4

Rebound time  
<= 2 ms

Degree of pollution  
3

Protection class

Front side IP 65  
Switching element IP 40

Ambient temperature  
-25°C as per DIN EN 60068-2-1  
+55°C as per DIN EN 60068-2-2

Storage temperature  
-40°C to +85°C

Mechanical service life  
EMERGENCY button 50,000 operations

Electrical characteristic values

Switch rating  
Silver contact  
(Solder/plug-inmin. 20 VAC, 10 mA  
connection)max. 250 VAC, 5 A

| Service category         |                                      |       |
|--------------------------|--------------------------------------|-------|
| Rated service<br>voltage | Rated service<br>current (inductive) |       |
|                          | AC 13                                | AC 14 |
| 250 VAC                  | 3 A                                  | 2 A   |
| 120 VAC                  | 5 A                                  | 3 A   |
| 60 VAC                   | 6 A                                  | 4 A   |
| 24 VAC                   | 6 A                                  | 5 A   |

| Service category         |                          |       |
|--------------------------|--------------------------|-------|
| Rated service<br>voltage | Rated service<br>current |       |
|                          | resistive                | DC 13 |
| 240 VDC                  | 0.5 A                    | 0.2 A |
| 110 VDC                  | 0.7 A                    | 0.4 A |
| 60 VDC                   | 2.0 A                    | 1.0 A |
| 24 VDC                   | 6.0 A                    | 2.0 A |

Volume resistivity  
New value for:  
Silver contact  
<= 50 m Ω  
as per IEC 512-2 Test 5

Rated insulation voltage Ui  
300 VAC

Electric strength  
as per VDE 0660 (IEC 512-2-11)  
4000 VAC, 50 Hz, 1 min between connections and earth

Overvoltage category  
III

## Thermal steady current

### $I_{th2}$ solder/plug-in connection 5 A

Max. permissible current for continuous operation and ambient temperature which does not exceed the specified max. values

### Max. permissible rated current

for series-connected blow-out fuse  
10 A gL

### Electrical service life

Slow-make element 6050 operations

### Approvals

- CE (declaration of conformity)
- CSA
- UR
- VDE
- ENEC

Right reserved to change all technical specifications.

## EMERGENCY slow-make element

### General

Is equipped with rigid contact link. The slow-make element opens positively and simply consists of a double-break NC. The multilayer contacts are designed for universal use and are gilded with a 2  $\mu$ m gold coating. The EMERGENCY slow-make element is designed according to DIN EN 60947-5-1.

### Material

### Housing

Duroplast (DAP)  
with fireproofing as per UL 94 V0

### Contact

AgNi, 2  $\mu$ m gilded

### Contact carrier

Brass or CuBe

### Connection

Brass gilded  
2.8 x 0.5 mm solder/plug-in or PCB connection  
1 mm<sup>2</sup> max. connection cross-section

### Mechanical characteristic values

#### Ambient temperature

-25°C as per DIN EN 60068-2-1  
+55°C as per DIN EN 60068-2-2

#### Storage temperature

-40°C to +85°C

#### Mechanical service life

8000 switching cycles

#### Contact opening width

> 2 x 1.5 mm

EMERGENCY switching element

### Electrical characteristic values

#### Rated voltage

250 V / 50 Hz

#### Service category

AC 15: 250 V / 1 A

#### Rated insulation voltage $U_i$

250 V

#### Series-connected blow-out fuse

5 A gL

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

5 A

#### Electrical service life

8000 switching cycles AC 15: 250 V / 1 A

### Diode element

#### General

Has no switching function. The diodes are soldered into the switching element housing between the contact connections.

#### Material

#### Housing

Thermoplast (PETP)  
with fireproofing as per UL 94 V0

#### Connection

Brass gilded  
2.8 x 0.5 mm solder/plug-in or PCB connection  
1 mm<sup>2</sup> max. connection cross-section

### Electrical characteristic values

#### Diode

1 N / 4007,  $I_{max.} = 1$  A,  $U_{block} = 1000$  V

### Dummy element

#### General

Is inserted in empty places in the switching element block. The dummy element has no metal parts and no electrical function.

#### Material

#### Housing

Thermoplast (PET)  
with fireproofing as per UL 94 V0

### Alarm buzzer

### Operating voltage

## Current consumption

approx. 13 mA

## Reverse-connect protection

yes

## Acoustics

approx. 84 dB at 0.1 m

## Frequency

approx. 2.3 kHz

## Unit

## General

In accordance with the low-voltage directive, our products are labelled with the CE mark.

SWISSTAC switches are modularly designed and are divided into the following three groups:

### 1. Front

Man-switch interface and state detector

### 2. Intermediate piece

Set and reset device, bulb holder, latching function

### 3. Switching element block

Up to five 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 piece 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 switches. The approval regulations are UL 1054, VDE 0630 (EMERGENCY button VDE 0660), CSA 22.2.

## Mechanical characteristic values

### Resistance to vibration

tested as per DIN EN 60068-2-6 (10 g to 2000 Hz)

### Shock resistance

tested as per DIN EN 60068-2-27 (semi-sinusoidal, 50 g during 11 ms) (single impacts, semi-sinusoidal)  
15 g during 11 ms as per DIN EN 60068-2-29

## Approvals

- CE (declaration of conformity)
- CSA
- UR
- VDE
- ENEC

## Front

## General

The front notifies the switching status, serves for activation of the switch and determines its type of protection. The form and colours of the front also characterise the appearance of the entire switching system. With the exception of the front  $\gamma$  18 mm of the illuminated pushbuttons 55 and 70 mm, all front frame elements have activation protection.

## Material

### Lens

Thermoplast (PC)

### Front bezel

Thermoplast with fireproofing (PBT)

### Actuator 35 mm

Thermoplast with fireproofing (PBT)

### Lock housing

Thermoplast with fireproofing (PBT)

### Lock cylinder

Rynite reinforced with carbon fibre (PBT + CF)  
Seal bellows (IP 65)  
Silicon

## Mechanical characteristic values

### Protection class

as per IEC 529 (front side)

IP 40

IP 65

IP 67

protection against water

0 = without protection

5 = spray water

7 = watertight up to 1 m WS

protection against solid matter of varying size

4 = protection against solid matter  $> \gamma$  1 mm

6 = dust-tight

see "Intermediate piece" for other properties

## Intermediate piece

## General

The intermediate piece serves for several properties such as the setting and resetting functions, and the latching device. In addition, all parts necessary for a complete switch are fastened to the intermediate piece. These include the front parts, switching element block and lamps.

## Material

### Housing

Thermoplast with fireproofing (PC)

### Lamp connection

Nickel silver 2.8 x 0.5 mm

## Electrical characteristic values

### Electric strength

3750 V AC, 1 min. as per DIN EN 61058-1

### Insulation resistance

$> 10^{12} \Omega$  as per IEC 512-2-10

## Illumination

### Lamp voltage

6 V to 125 V as per CSA

6 V to 60 V as per VDE, UL, DEMKO

## Lamp output

max. 1.2 W

## Mechanical characteristic values

### Ambient temperature

-25°C as per DIN EN 60068-2-1

+55°C as per DIN EN 60068-2-2

### Storage temperature

-40°C to +85°C

### Service life

> 2 x 10<sup>6</sup> activations of the illuminated pushbuttons

> 5 x 10<sup>4</sup> activations of the key and selector switches

> 8 x 10<sup>3</sup> activations of the emergency button

> 2.5 x 10<sup>5</sup> activations of the push-pull illuminated button

## 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 switching element available.

1. Snap-action switching element
2. Emergency button switching element
3. Diode element
4. Dummy element

### Material

### Bracket for three switching elements

rust-free chromium steel

### Bracket for two switching elements

Thermoplast with fireproofing (PA6)

### Lamp connection

CuBe, 2 µm Optalloy 2.8 x 0.5 mm solder/plug-in connection

## Electrical characteristic values

### Electric strength

2000 V AC, 50 Hz 1 min. (functional isolation)

### Insulation resistance

> 10<sup>12</sup> W

In accordance with the VDE 0630 regulation, blade receptacles must be used with the insulation socket 280-0010-00.

## Snap-action switching element

### General

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 an NC (normally closed contact) and an NO (normally open contact)

### Material

### Housing

Thermoplast (PETP)

with fireproofing as per UL 94 V0

## Contact

AgNi, 2 µm gilded

## Contact carrier

Brass or CuBe

## Connection

Brass gilded

2.8 x 0.5 mm solder/plug-in or PCB connection

1 mm<sup>2</sup> max. connection cross-section

## Mechanical characteristic values

### Ambient temperature

-25°C to +55°C

-25°C as per DIN EN 60068-2-1

+55°C as per DIN EN 60068-2-2

### Storage temperature

-40°C to +85°C as per DIN EN 60068

### Mechanical service life

2 x 10<sup>5</sup> switching cycles

### Contact opening width

2 x 0.65 mm

### Contact cleaning path

2 x 0.6 mm

### Rebound time

typically 0.5 ms

### Activation force

approx. 2 N for each snap-action switching element

## Electrical characteristic values

### Thermal steady current I<sub>th</sub> max.

6 A, up to 3-pole switching element block

4 A, for 4- and 5-pole switching element blocks

Limited on thermal grounds to I<sub>max</sub> = 4 A

### Volume resistivity

< = 50 m Ω typically, new statically

### Electrical load as per DIN EN 61058-1

5(1.5) A 250 V up to 3 switching elements

4(1) A 250 V for 4 or 5 switching elements,

min. AC / DC: 5 V / 1 mA

### Electrical service life

> 10<sup>4</sup> switching operations

DIN EN 61058-1250 V, (1.5) A

DIN EN 60947-5-1 AC 12:250 V / 0.5 A

110 V / 2 A

75 V / 5 A

60 V / 6 A

48 V / 6 A

24 V / 6 A

## Snap-action switching element

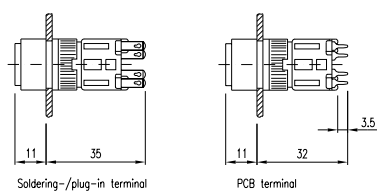
Out 4.7

In 3.6

## technical drawings

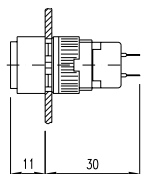
### 1 indicator actuator 35 mm, pushbutton-/illuminated pushbutton actuator 35 mm

page 591, 592



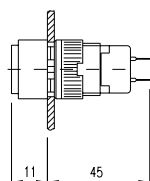
### 2 indicator 30 - 70 mm, buzzer 30 - 55 mm

page 591, 607



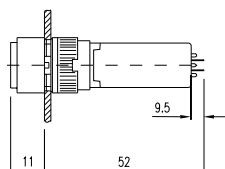
### 3 indicator 30 - 70 mm

page 591



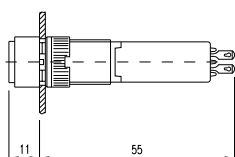
### 4 indicator 30 - 70 mm, buzzer 30 - 55 mm

page 591, 607



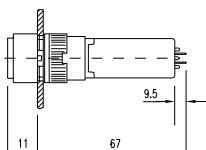
### 5 indicator 30 - 70 mm, buzzer 30 - 55 mm

page 591, 607



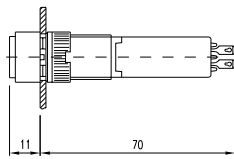
### 6 indicator 30 - 70 mm

page 591



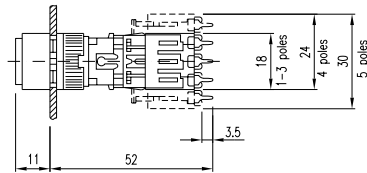
## 7 indicator 30 - 70 mm

page 591



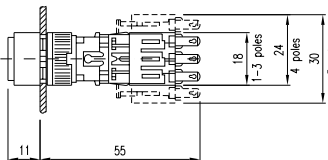
## 8 illuminated-/pushbutton 55 - 70 mm

page 593



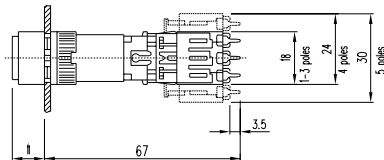
## 9 illuminated-/pushbutton 55 - 70 mm

page 593



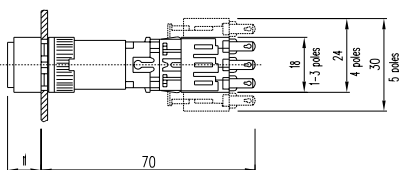
## 10 illuminated-/pushbutton 55 - 70 mm

page 593



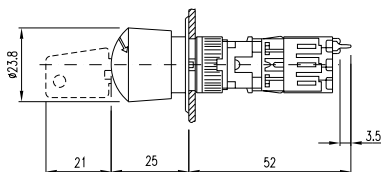
## 11 illuminated-/pushbutton 55 - 70 mm

page 593

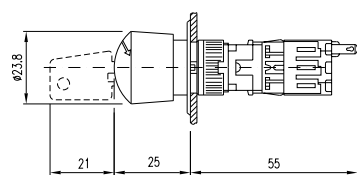


## 12 emergency stop switch 55 - 70 mm

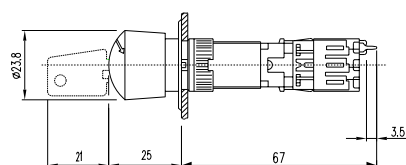
page 594



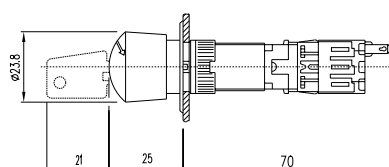
## 13 emergency stop switch 55 - 70 mm page 594



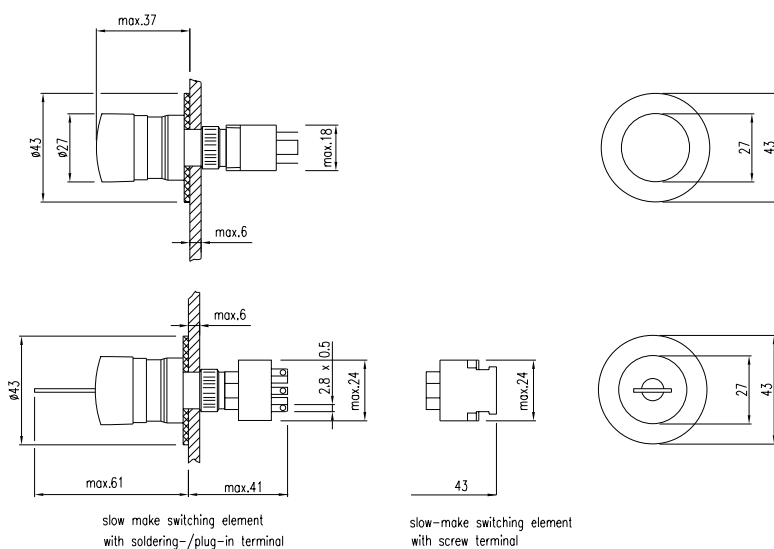
## 14 emergency stop switch 55 - 70 mm page 594



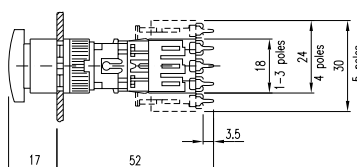
## 15 emergency stop switch 55 - 70 mm page 594



## 16 emergency stop switch foolproof 41 mm page 596

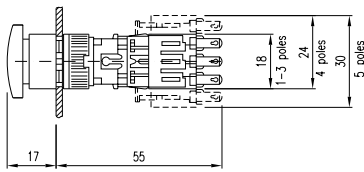


## 17 pushbutton with mushroom-head cap 55 - 70 mm page 597

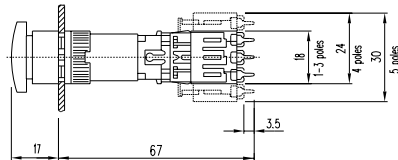




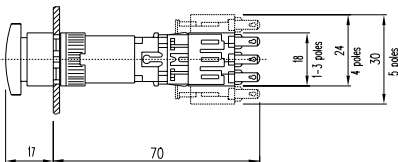
**18 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



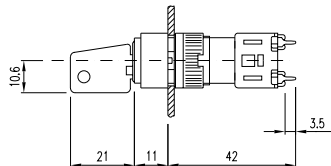
**19 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



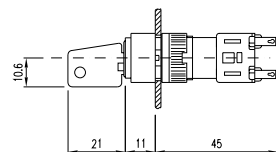
**20 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



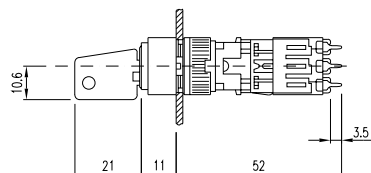
**21 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm**  
page 598, 602



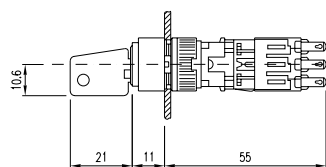
**22 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm**  
page 598, 602



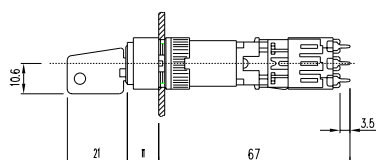
**23 keylock switch 2 positions 45 - 70 mm**  
page 598



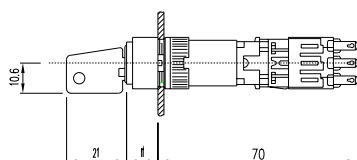
**24 keylock switch 2 positions 45 - 70 mm**  
page 598



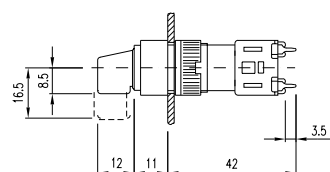
**25 keylock switch 2 positions 45 - 70 mm**  
page 598



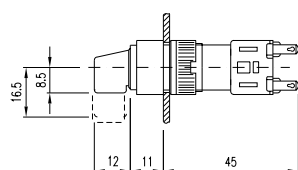
**26 keylock switch 2 positions 45 - 70 mm**  
page 598



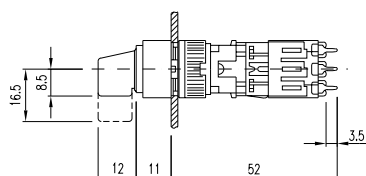
**27 selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm**  
page 603, 606



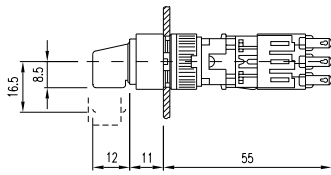
**28 selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm**  
page 603, 606



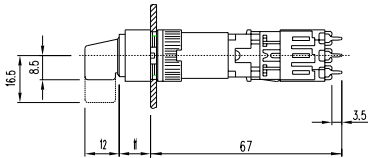
**29 selector switch 2 positions 45 - 70 mm**  
page 603



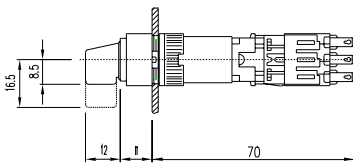
**30 selector switch 2 positions 45 - 70 mm**  
page 603



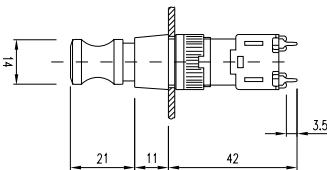
**31 selector switch 2 positions 45 - 70 mm**  
page 603



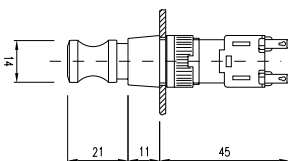
**32 selector switch 2 positions 45 - 70 mm**  
page 603



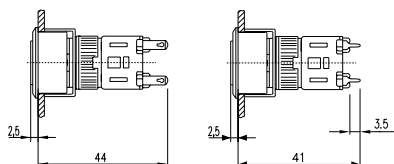
**33 push-pull illuminated switch 45 mm**  
page 607



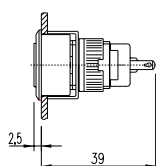
**34 push-pull illuminated switch 45 mm**  
page 607



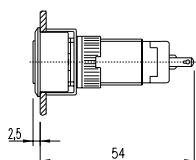
**35 indicator actuator 41-44 mm for flush mounting, illuminated-/pushbutton actuator 41-44 mm for flush mounting**  
page 608, 610



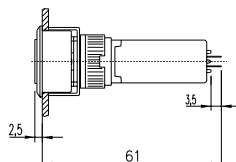
**36 indicator for flush mounting 39 - 79 mm, buzzer for flush mounting 39 - 64 mm**  
page 609, 621



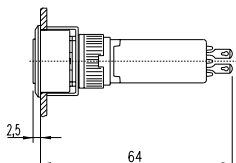
**37 indicator for flush mounting 39 - 79 mm**  
page 609



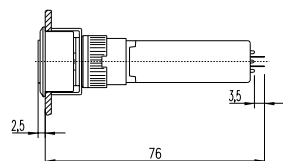
**38 indicator for flush mounting 39 - 79 mm, buzzer for flush mounting 39 - 64 mm**  
page 609, 621



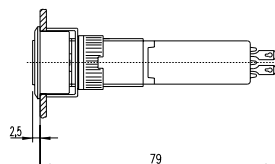
**39 indicator for flush mounting 39 - 79 mm, buzzer for flush mounting 39 - 64 mm**  
page 609, 621



**40 indicator for flush mounting 39 - 79 mm**  
page 609

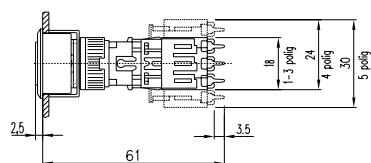


**41 indicator for flush mounting 39 - 79 mm**  
page 609



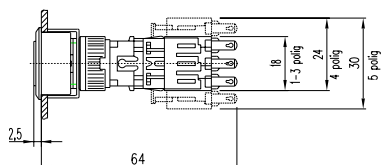
## 42 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm

page 611



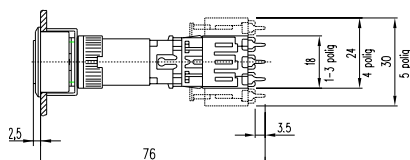
## 43 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm

page 611



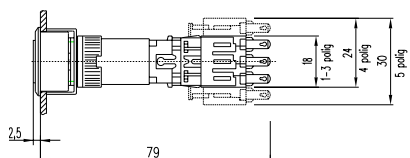
## 44 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm

page 611



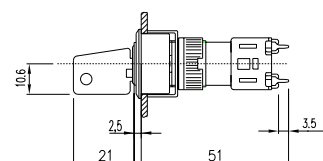
## 45 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm

page 611



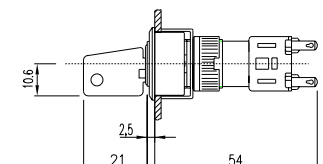
## 46 keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm

page 612, 616



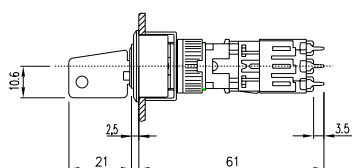
## 47 keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm

page 612, 616



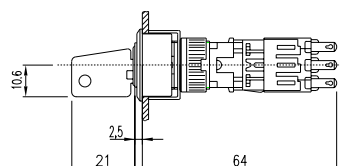
## 48 keylock switch 2 positions for flush mounting 51 - 79 mm

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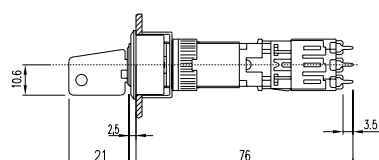
## 49 keylock switch 2 positions for flush mounting 51 - 79 mm

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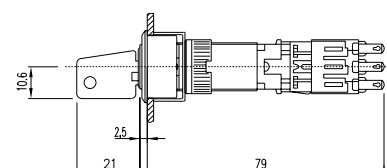
## 50 keylock switch 2 positions for flush mounting 51 - 79 mm

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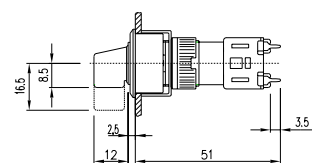
## 51 keylock switch 2 positions for flush mounting 51 - 79 mm

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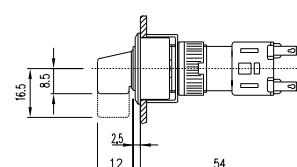
## 52 selector switch 2 positions for flush mounting 51 - 79 mm, selector switch 3 positions for flush mounting 51 - 54 mm

page 617, 620

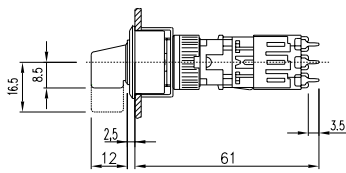


## 53 selector switch 2 positions for flush mounting 51 - 79 mm, selector switch 3 positions for flush mounting 51 - 54 mm

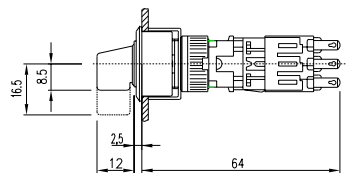
page 617, 620



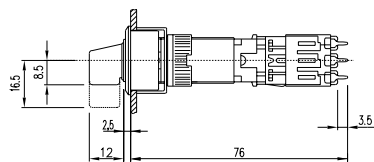
**54 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617



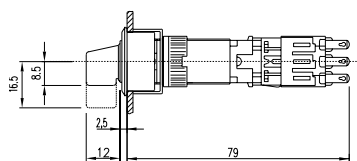
**55 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617



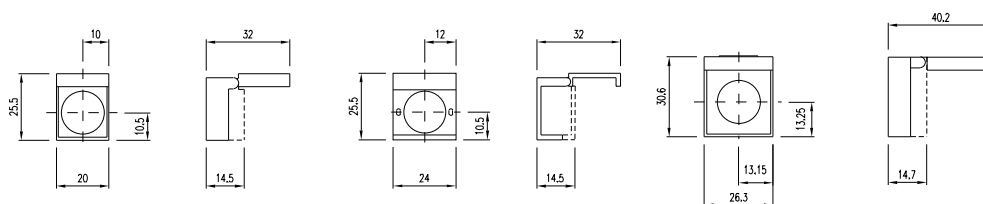
**56 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617



**57 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617

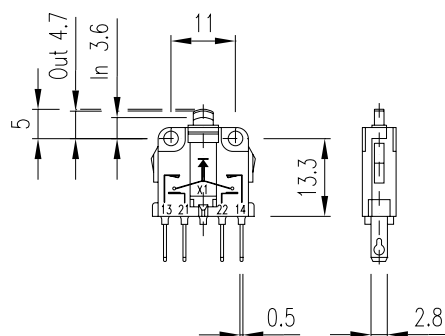


**58 protective cover for 35 mm, protective cover for illuminated-/pushbutton 55 - 70 mm**  
page 628, 629



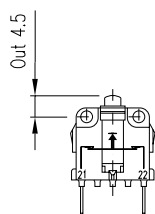
**59 snap-action switching element**

page 632



**60 slow-make switching element for emergency stop switch**

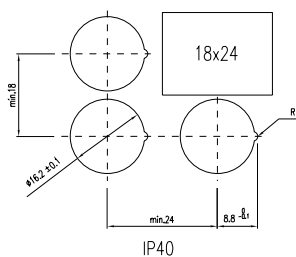
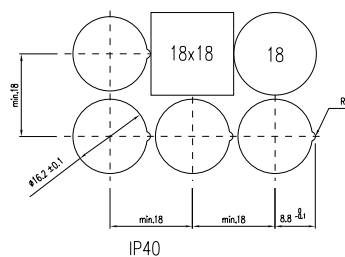
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## mounting dimensions

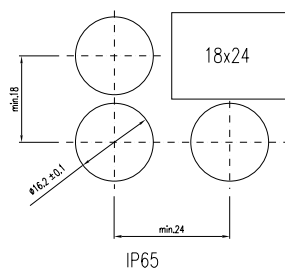
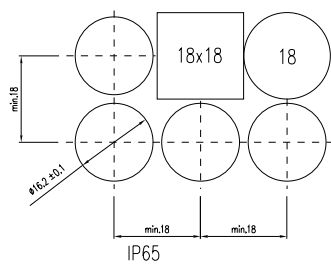
**1 indicator actuator 35 mm, pushbutton-/illuminated pushbutton actuator 35 mm**

page 591, 592



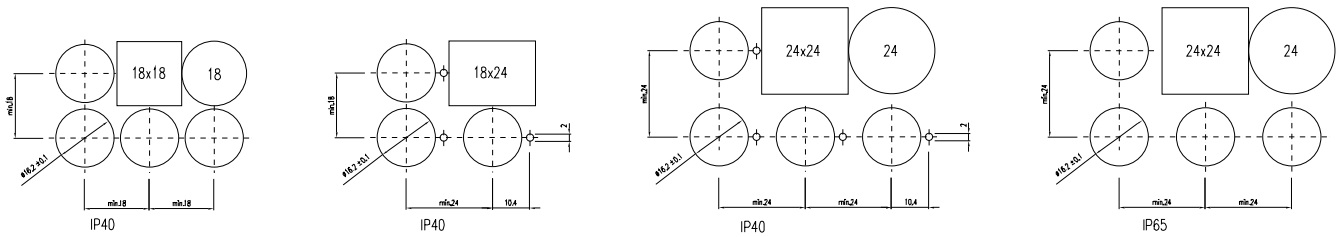
**2 indicator actuator 35 mm, pushbutton-/illuminated pushbutton actuator 35 mm**

page 591, 592

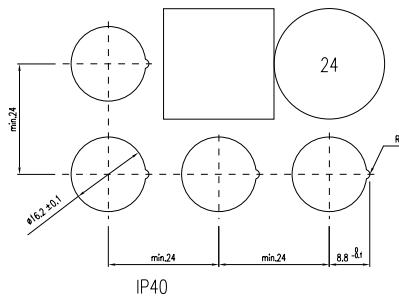




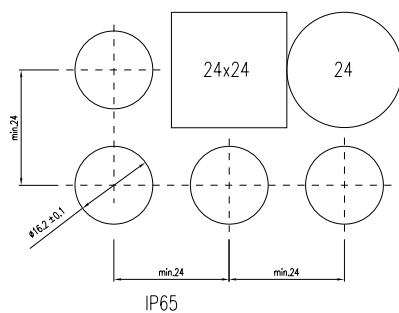
## 3 indicator 30 - 70 mm, illuminated-/pushbutton 55 - 70 mm page 591, 593,



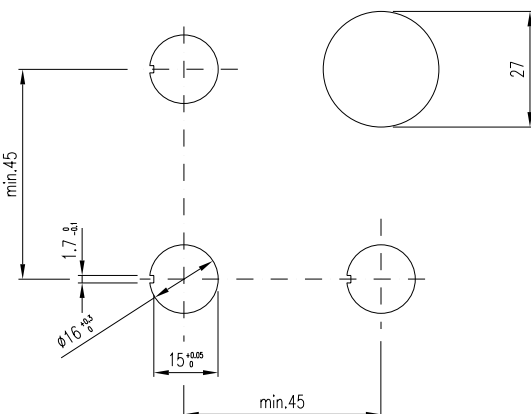
## 4 emergency stop switch 55 - 70 mm page 594



## 5 emergency stop switch 55 - 70 mm page 594

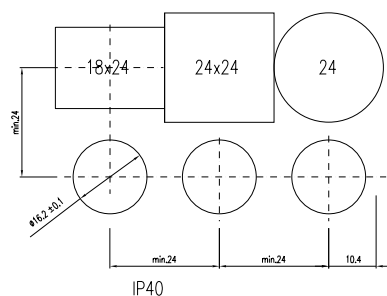


## 6 emergency stop switch foolproof 41 mm page 596



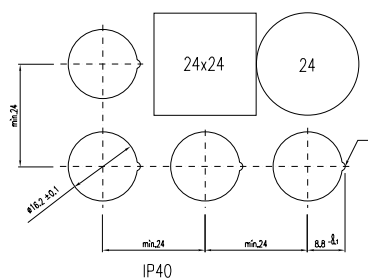
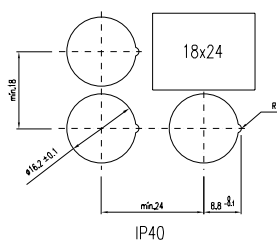
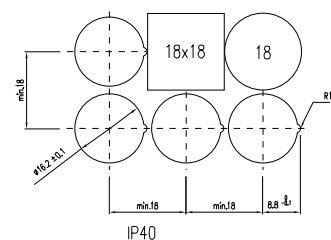
## 7 pushbutton with mushroom-head cap 55 - 70 mm

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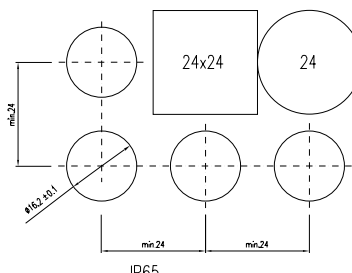
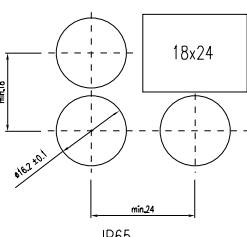
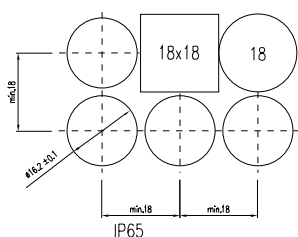
## 8 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm

598, 602,



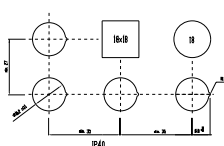
## 9 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm

page 598, 602

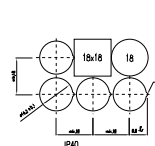
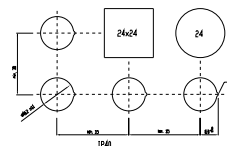
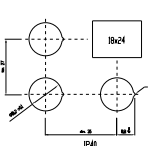


## 10 selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm

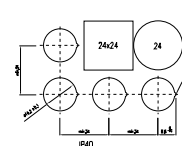
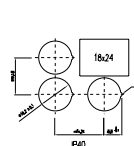
page 603, 606



for lever long

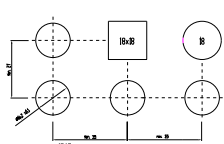


for lever short

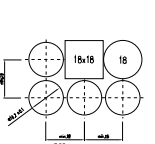
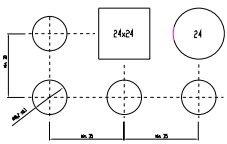
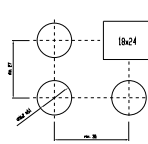


## 11 selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm

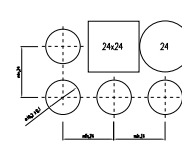
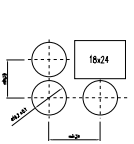
page 603, 606



for lever long

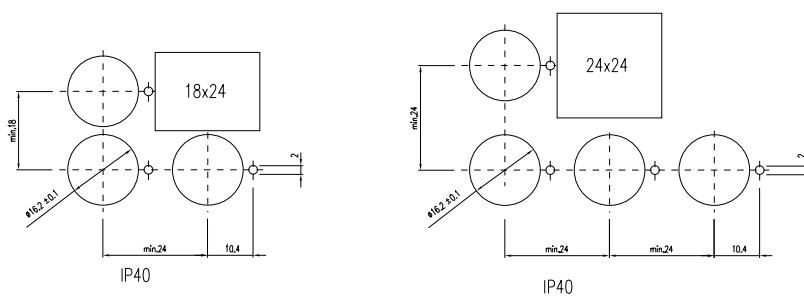


for lever short



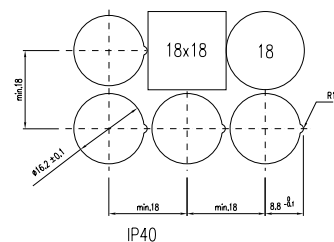
## 12 buzzer 30 - 55 mm

page 607



## 13 push-pull illuminated switch 45 mm

page 607

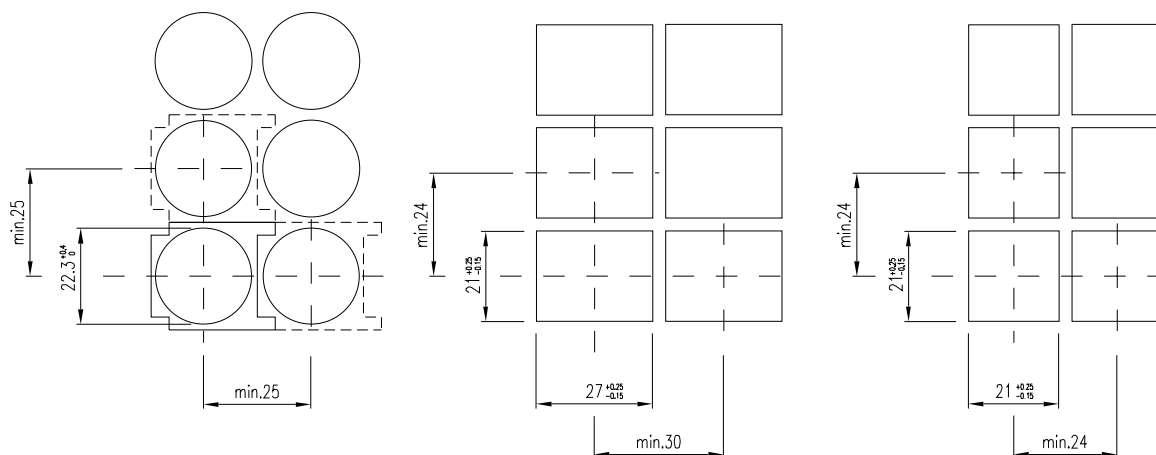


**14 indicator actuator 41-44 mm for flush mounting, indicator for flush mounting 39 - 79 mm, illuminated-/pushbutton actuator 41-44 mm for flush mounting, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm, keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 608, 609, 610, 611, 612, 616

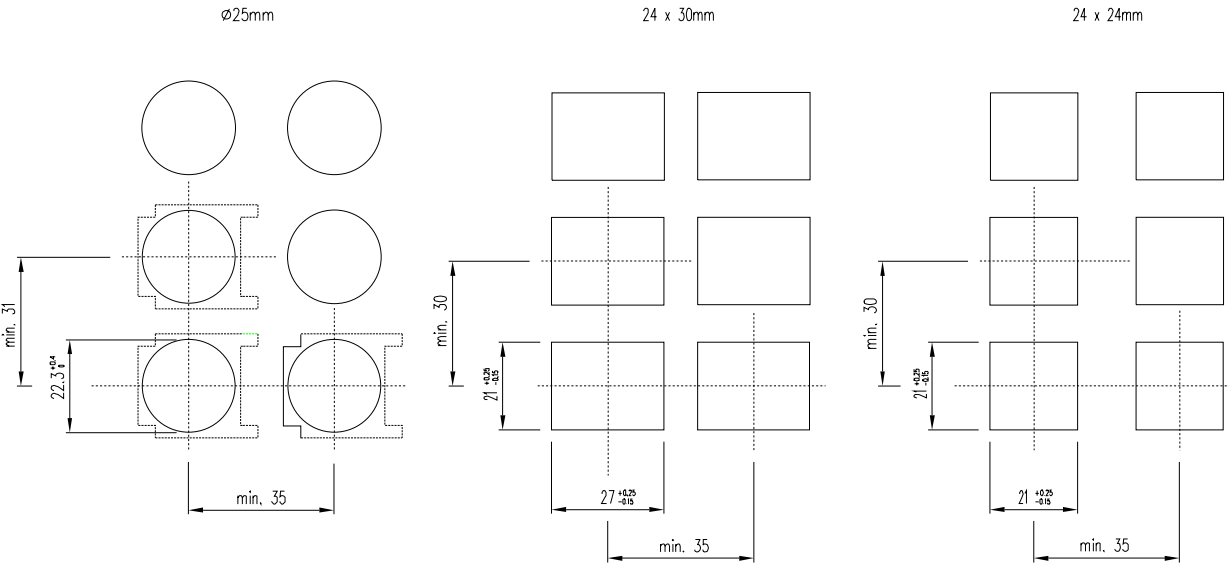
$\varnothing 25\text{mm}$

24 x 30mm

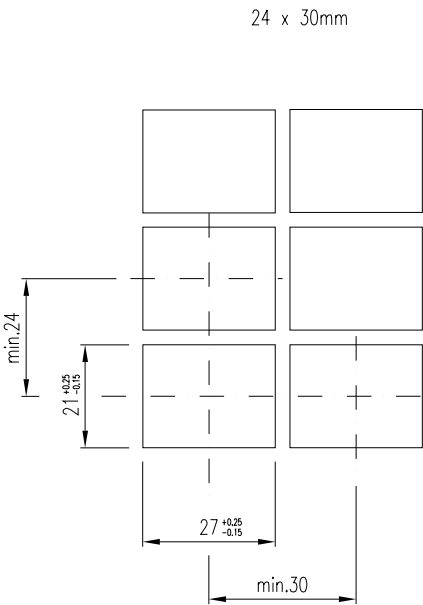
24 x 24mm



15 selector switch 2 positions for flush mounting 51 - 79 mm, selector switch 3 positions for flush mounting 51 - 54 mm  
page 617, 620



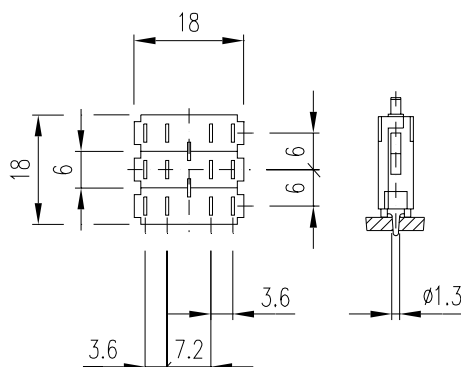
16 buzzer for flush mounting 39 - 64 mm  
page 621



## component layouts

1 indicator actuator 35 mm, indicator 30 - 70 mm, pushbutton-/illuminated pushbutton actuator 35 mm, illuminated-/pushbutton 55 - 70 mm, emergency stop switch 55 - 70 mm, pushbutton with mushroom-head cap 55 - 70 mm, keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm, selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm, buzzer 30 - 55 mm, push-pull illuminated switch 45 mm, indicator for flush mounting 39 - 79 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm, keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm, selector switch 2 positions for flush mounting 51 - 79 mm, selector switch 3 positions for flush mounting 51 - 54 mm, buzzer for flush mounting 39 - 64 mm, snap-action switching element block for 35 mm, lamp element block for 35 mm

page 591, 591, 592, 593, 594, 597, 598, 602, 603, 606, 607, 607, 609, 611, 612, 616, 617, 620, 621, 631, 632



## circuit drawings

1 indicator actuator 35 mm, indicator 30 - 70 mm, indicator actuator 41-44 mm for flush mounting, indicator for flush mounting 39 - 79 mm, lamp element block for 35 mm

page 591, 591, 608, 609, 632

x1+



x2-

2 pushbutton-/illuminated pushbutton actuator 35 mm

page 592

x1+



x2-

3 pushbutton-/illuminated pushbutton actuator 35 mm

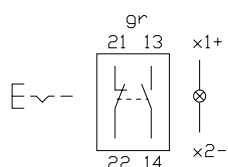
page 59

x1+

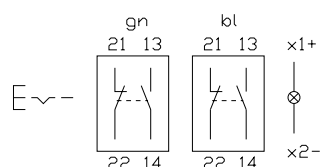


x2-

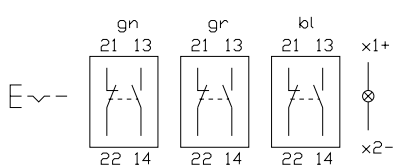
**4 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
593, 611,



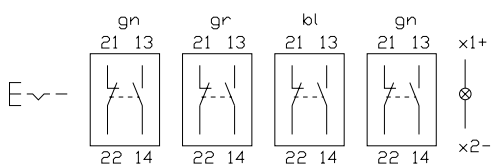
**5 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



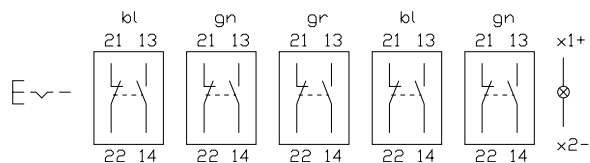
**6 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



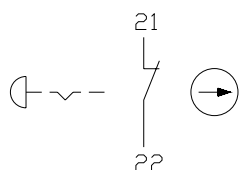
**7 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



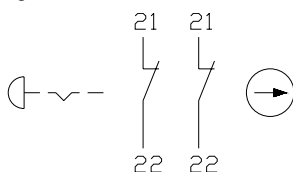
**8 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



**9 emergency stop switch 55 - 70 mm**  
page 594

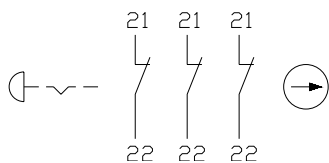


**10 emergency stop switch 55 - 70 mm**  
page 594



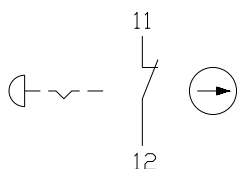
## 11 emergency stop switch 55 - 70 mm

page 594



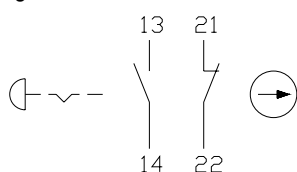
## 12 emergency stop switch foolproof 41 mm

page 596



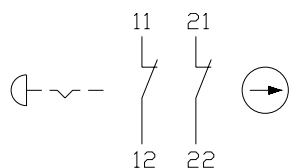
## 13 emergency stop switch foolproof 41 mm

page 596



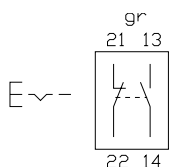
## 14 emergency stop switch foolproof 41 mm

page 596



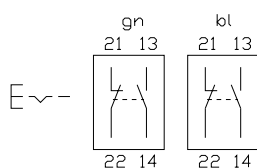
## 15 pushbutton with mushroom-head cap 55 - 70 mm

page 597



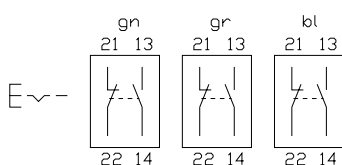
## 16 pushbutton with mushroom-head cap 55 - 70 mm

page 597



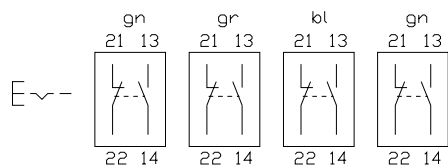
## 17 pushbutton with mushroom-head cap 55 - 70 mm

page 597



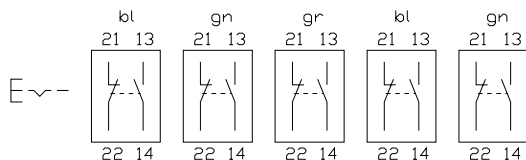
## 18 pushbutton with mushroom-head cap 55 - 70 mm

page 597



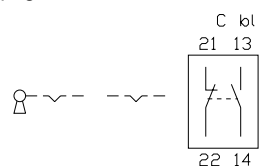
## 19 pushbutton with mushroom-head cap 55 - 70 mm

page 597



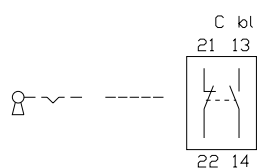
## 20 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm

page 598, 612



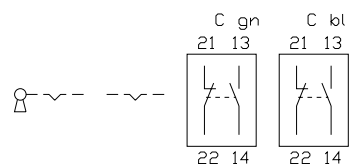
## 21 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm

page 598, 612



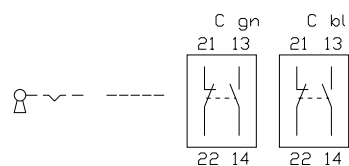
## 22 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm

page 598, 612



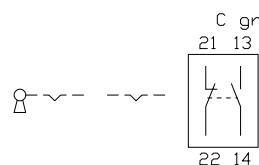
## 23 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm

page 598, 612



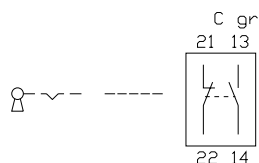
## 24 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm

page 598, 612

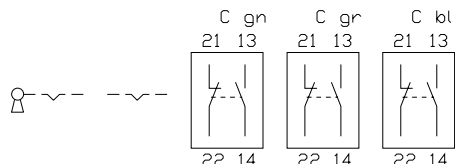




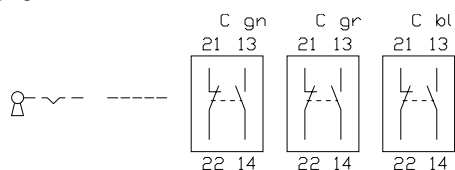
**25 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



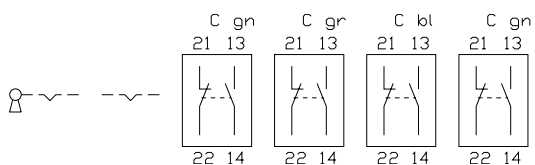
**26 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



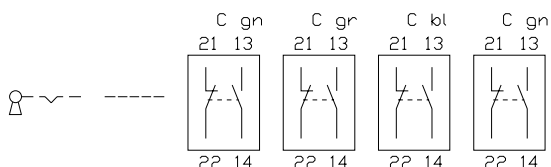
**27 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



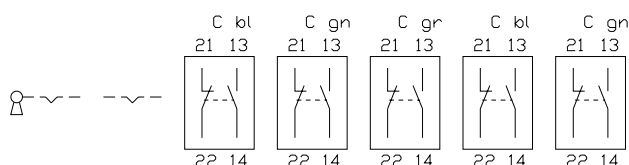
**28 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



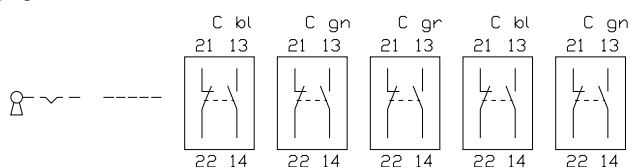
**29 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



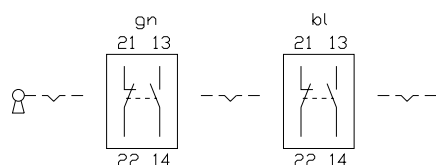
**30 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



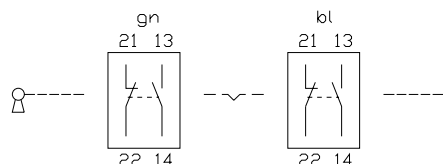
**31 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



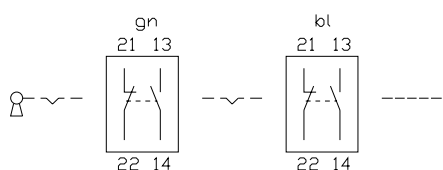
**32 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



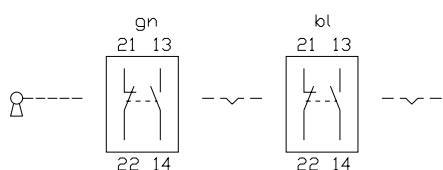
**33 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



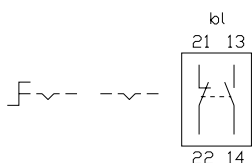
**34 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



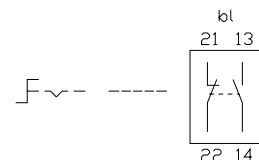
**35 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



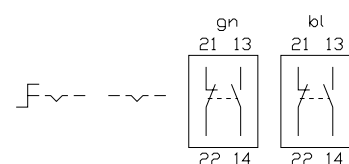
**36 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



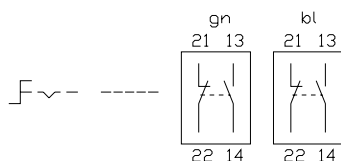
**37 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



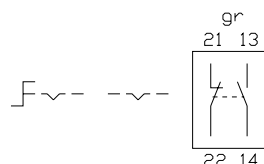
**38 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



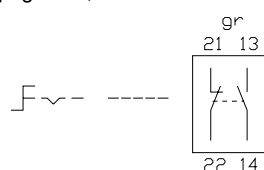
**39 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



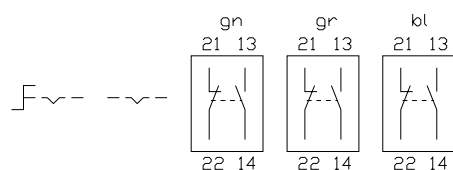
**40 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



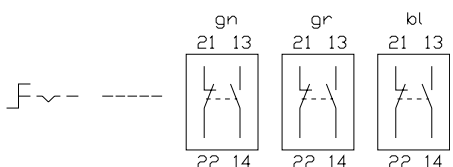
**41 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



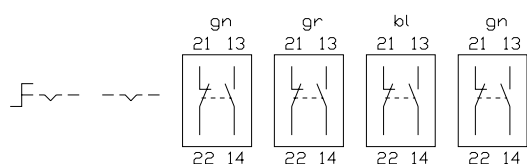
**42 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



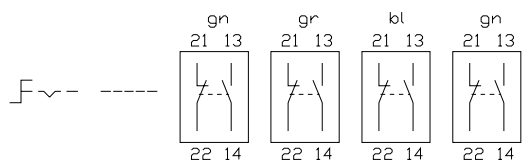
**43 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



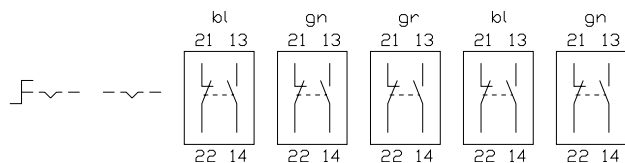
**44 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



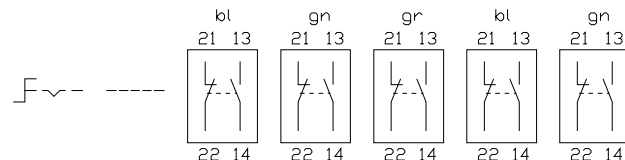
**45 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



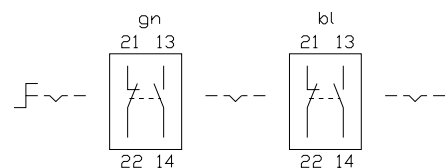
**46 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



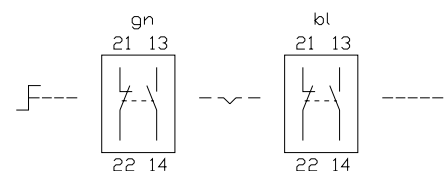
**47 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



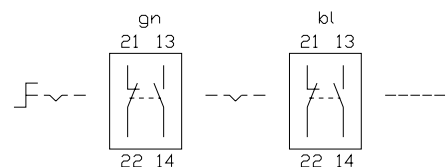
**48 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620



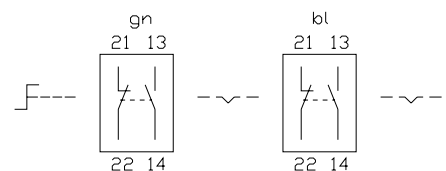
**49 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620



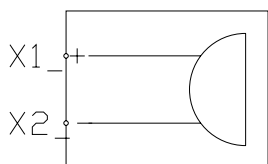
**50 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620



**51 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620

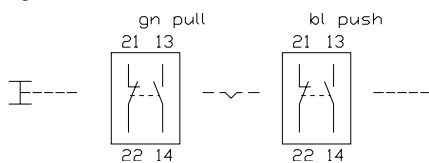


**52 buzzer 30 - 55 mm, buzzer for flush mounting 39 - 64 mm**  
page 607, 621



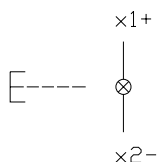
## 53 push-pull illuminated switch 45 mm

page 607



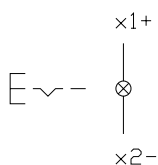
## 54 illuminated-/pushbutton actuator 41-44 mm for flush mounting

page 610



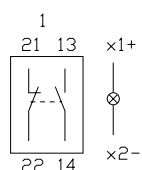
## 55 illuminated-/pushbutton actuator 41-44 mm for flush mounting

page 610



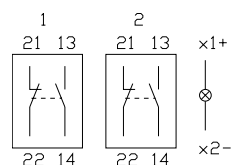
## 56 snap-action switching element block for 35 mm

page 631



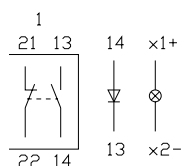
## 57 snap-action switching element block for 35 mm

page 631



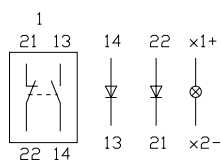
## 58 snap-action switching element block for 35 mm

page 631

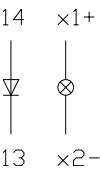


## 59 snap-action switching element block for 35 mm

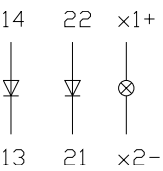
page 631



60 lamp element block for 35 mm  
page 632



61 lamp element block for 35 mm  
page 632



## 1. Engraving

The lens top or the lens holder can be engraved in any of the usual languages.  
Typefaces: compressed typeface to DIN 1451. Other faces on request.

### Colour of lettering

White for lens tops red, blue, green and black  
Black for lens tops orange, yellow, grey and white  
Black for lens holders translucent and transparent

### Important!

With engraving, the position of the lens must agree with the position of the push-button or indicator.  
However, the lens can be mounted turned through 180°.

## 2. 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 push-button or indicator.  
However, the lens can be mounted turned through 180°.

## 3. Film insert

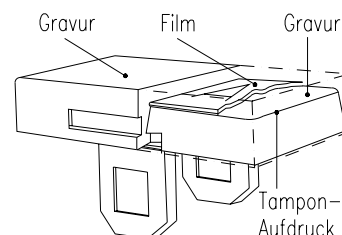
Instead of engraving, a transparent foil can be laid in the lens tops, except with the colours grey and black.

### Foil thickness

### 0.1 mm max

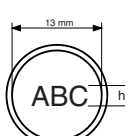
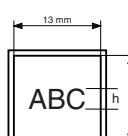
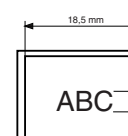
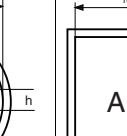
|            |                |
|------------|----------------|
| Ø 18 mm    | Ø 12,7 mm      |
| 18 x 18 mm | 12,7 x 12,7 mm |
| 18 x 24 mm | 12,7 x 18,9 mm |
| Ø 24 mm    | Ø 18,3 mm      |
| 24 x 24 mm | 18,3 x 18,3 mm |

### Filmdickemax. 0,1mm



### Important!

When a foil is used, the position of the lens must agree with the position of the push-button or indicator.  
However, the lens can be mounted turned through 180°.

|                   | 'round' 18                                                                          |   | 18 x 18                                                                             |   | 18 x 24                                                                             |   | 24 x 18                                                                             |   | 'round' 24                                                                           |   | 24 x 24                                                                               |   |
|-------------------|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------|---|--------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|---|
|                   |  |   |  |   |  |   |  |   |  |   |  |   |
| Height of letters | Number of lines                                                                     |   | Number of lines                                                                     |   | Number of lines                                                                     |   | Number of lines                                                                     |   | Number of lines                                                                      |   | Number of lines                                                                       |   |
|                   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                      |   |                                                                                       |   |
|                   | - Number of letters per line                                                        |   | - Number of letters per line                                                        |   | horizontal montage                                                                  |   | vertical montage                                                                    |   | - Number of letters per line                                                         |   | - Number of letters per line                                                          |   |
|                   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                      |   |                                                                                       |   |
|                   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                      |   |                                                                                       |   |
| h                 |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                     |   |                                                                                      |   |                                                                                       |   |
| 2,5 mm            | 2                                                                                   | 5 | 3                                                                                   | 5 | 3                                                                                   | 8 | 5                                                                                   | 5 | 4                                                                                    | 7 | 5                                                                                     | 8 |
| 3 mm              | 2                                                                                   | 5 | 3                                                                                   | 5 | 3                                                                                   | 8 | 4                                                                                   | 5 | 3                                                                                    | 7 | 4                                                                                     | 8 |
| 4 mm              | 1                                                                                   | 3 | 2                                                                                   | 3 | 2                                                                                   | 5 | 3                                                                                   | 3 | 3                                                                                    | 4 | 3                                                                                     | 6 |
| 5 mm              | 1                                                                                   | 2 | 1                                                                                   | 3 | 1                                                                                   | 5 | 2                                                                                   | 3 | 2                                                                                    | 3 | 2                                                                                     | 5 |







Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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