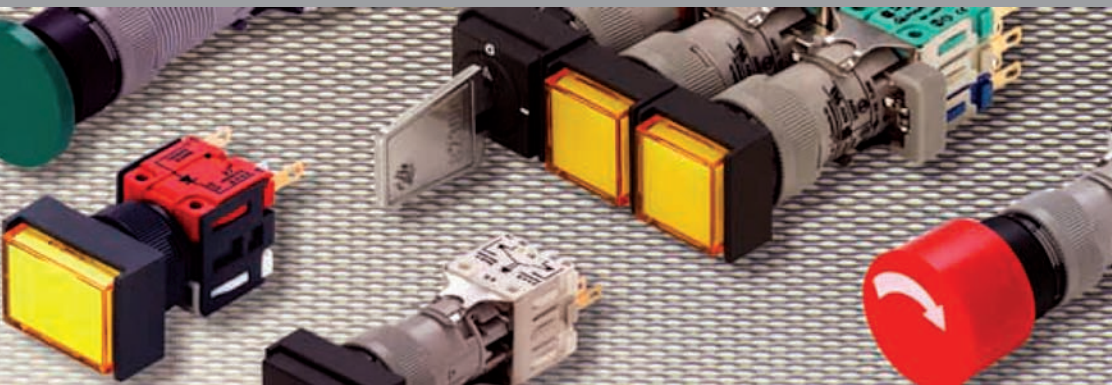
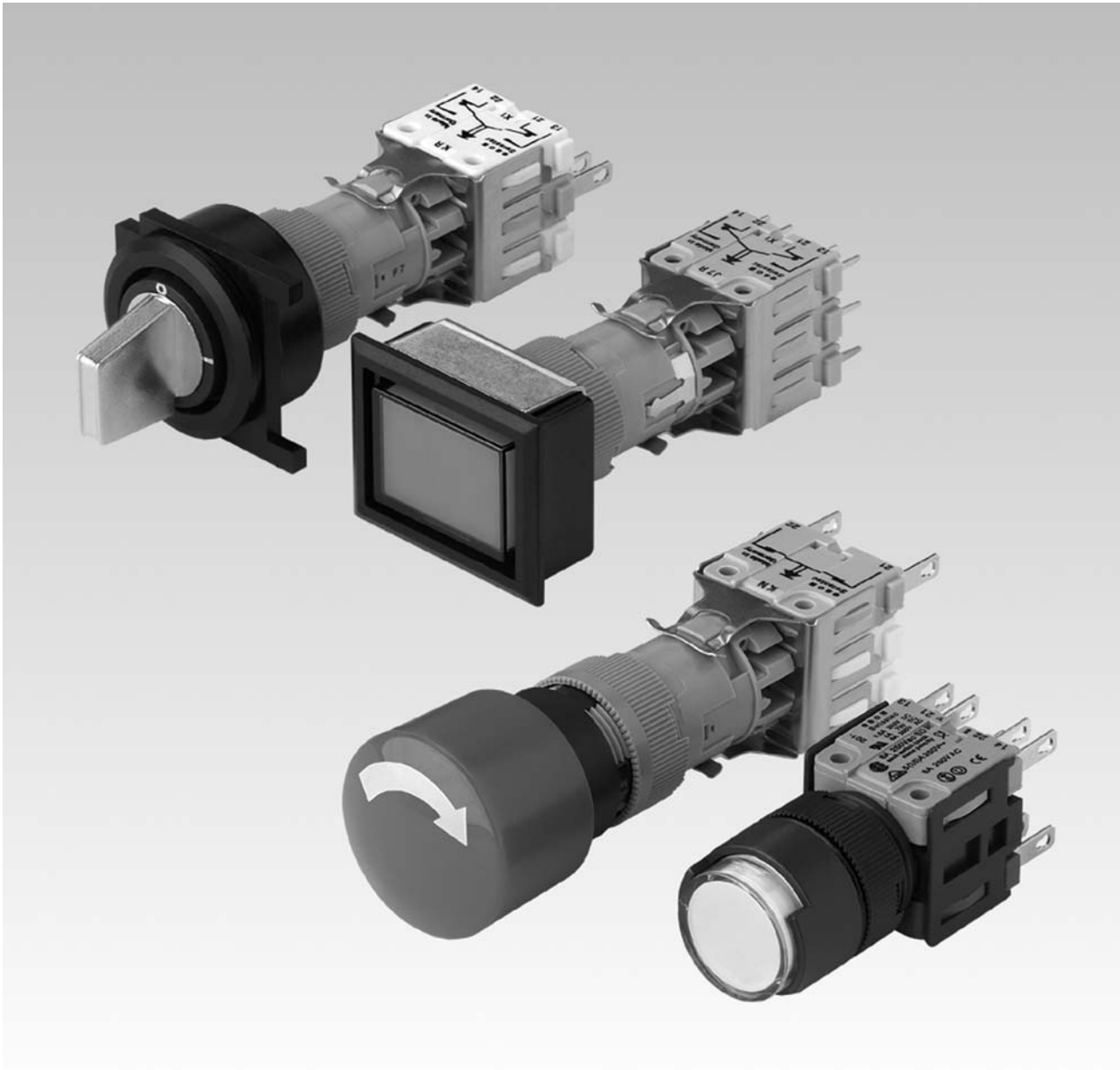


EAO – Your Expert Partner for
Human Machine Interfaces



EAO Product Information

Series Swisstac



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Product Information

SWISSTAC - Three crucial advantages**1. 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.

2. All connections on one plane

All 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.

2. 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.

General notes

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, 18 x 24 mm, 24 mm dia.. For flush mounting, dimensions 25 mm dia., 24 x 24 mm, 24 x 30 mm are also available.

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

Design

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

- Front section : Man/switch interface and status indicator. Two-parts lens for engraving, film insert or printing.
- Intermediate section : Latching/ puls facility, lamp holder, latch holder. Intermediate section with switching mechanism and lamp holder which is available in two versions T5.5 1.2 W max. and T1³/₄ Midget Groove 1.2 W max..
- Terminal block : Up to a max. of five switching elements can be joined together in one terminal block. Are supplied mounted serially on intermediate sections. Can be disassembled easily for wiring.

Marking

For further information about engraving, stamping and film inserts see part Marking.

Illumination

The T1³/₄ MG and T5.5 incandescent (filament) lamp (6, 12, 24, 28, 36, 48 V) ensures perfect illumination of the lenses, which are supplied in various colours.

Where supply voltages are over 48 V, a voltage-reduction element (external protective series resistor) must be used.

T1³/₄ MG and T5.5 Single-Chip LED (6, 12, 24, 28, 48 V) are also available in blue, green, red, white or yellow.

Do not solder the terminals directly, because of the high surface temperature.

Luminosity and wave length scattering caused by the technology used in the LED manufacturing processes may lead to visual differences in our products.

Position indication

The status of a maintained action switch can be determined by the position of the lens.

Keylock switch

Standard lock number is B2 300. We supply B2 300 without specifications of the lock numbers. When ordering this additional designation should be quoted. Four further standard locks are B2 301 ... B2 304. A further 95 locks are available in or without pass-partout version on request.

Two keys are supplied with each keylock switch.

Spare keys for standard locks may be ordered by quoting Typ-Nr. 240-2001-00 (please state the lock number).

Specimen order: 240-2001-00 B2 300

Stop pushbutton with key to release

Standard lock number is B2 390. Four further standard locks are B2 391 ... B2 394. When ordering this additional designation should be quoted.

Two keys are supplied with each keylock switch.

Spare keys for standard locks may be ordered by quoting Typ-Nr. 240-3001-00 (please state the lock number).

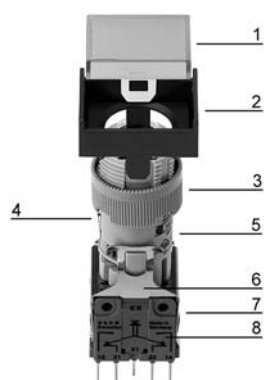
Specimen order: 240-3001-00 B2 390

Emergency-stop pushbutton, foolproof with key to release

KABA safety lock. Standard lock number is 1001. Spare keys may be ordered under Typ-Nr. 240-4001-00 1001.

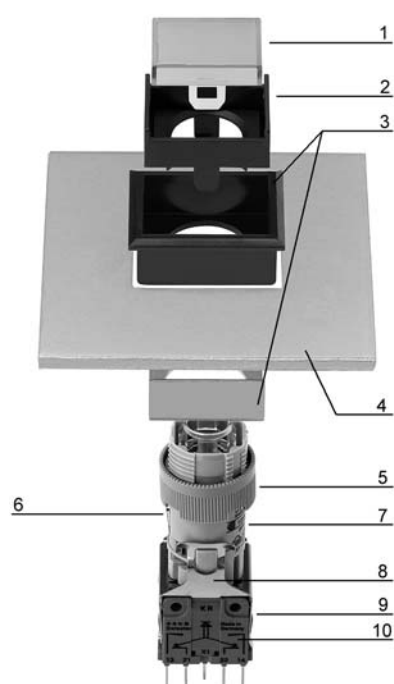
*We reserve the right to modify technical data
All dimensions in mm*

Pushbutton illuminative, raised mounting



- 1 Lens
- 2 Front bezel
- 3 Fixing nut
- 4 Spring with pin for changing from maintained to momentary action
- 5 Intermediate section
- 6 Holder for switching element
- 7 Switching element block
- 8 Switching element

Pushbutton illuminative, flush mounting

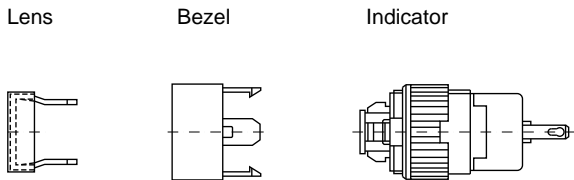


- 1 Lens
- 2 Front bezel
- 3 Front bezel set, flush mounting
- 4 Front panel
- 5 Fixing nut
- 6 Spring with pin for changing from maintained to momentary action
- 7 Intermediate section
- 8 Holder for switching element
- 9 Switching element block
- 10 Switching element

Indicator 30 - 70 mm

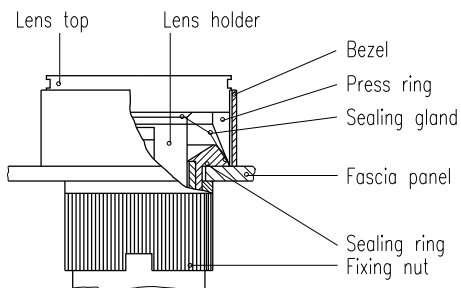
The switch is mounted in a fascia or control panel in two steps:

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



Indicator 30 - 70 mm, sealing gland and sealing ring

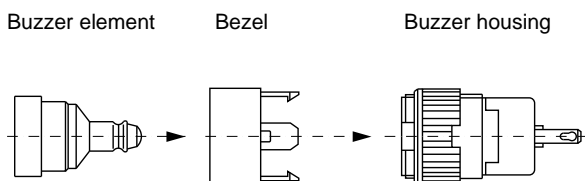
The press ring is fitted between gland and lens. The seal is effective when the lens is snapped into place.



Buzzer 30 - 55 mm

The buzzer is mounted in a fascia or control panel in two steps:

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

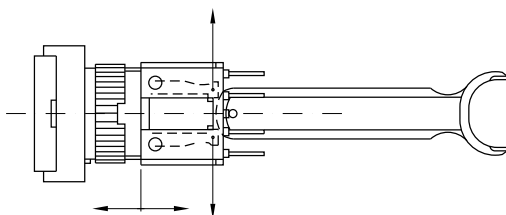


Pushbutton illuminated 35 mm

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 the front in fascia/control panel.
3. Reassemble the switch in the reverse order.

To detach terminal block



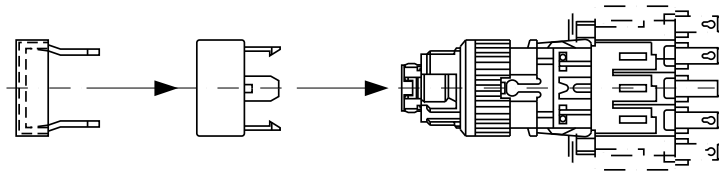
Note: Type-identification on legs of actuator !

Pushbutton illuminated 55 - 70 mm

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

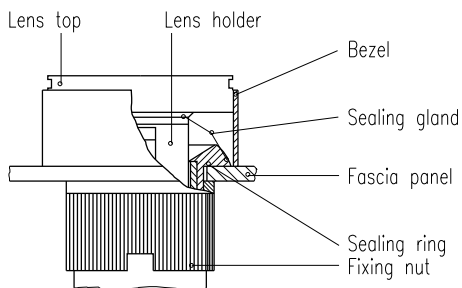
1. Insert switch from the back side in fascia/control panel.
2. Snap on bezel and tighten fixing nut.

Lens Bezel Illuminated pushbutton



Pushbutton illuminated 55 - 70 mm, sealing gland and sealing ring

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

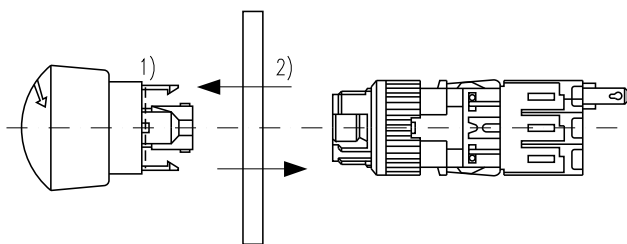


Stop pushbutton 55 - 70 mm, twist to unlock

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 the back side in fascia/control panel.
3. Snap on front section and tighten fixing nut.

Zero position Legend plate Wiring diagram



Important for protection class IP 65 !

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

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

Stop pushbutton 55 - 70 mm, key to unlock

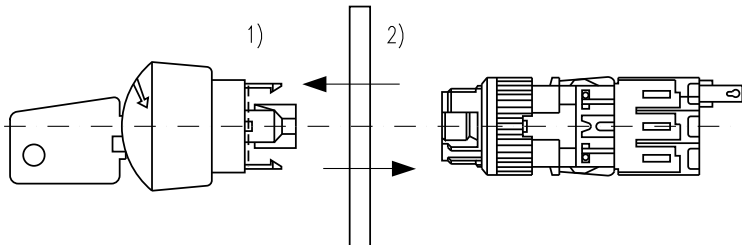
The switch is mounted in a fascia or control panel in three steps:

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

Zero position

Legend plate

Wiring diagram



Important for protection class IP 65 !

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

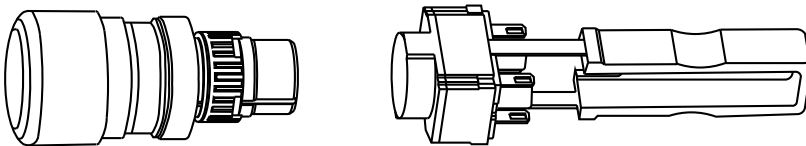
Sealing ring ²⁾ is fitted as standard in models to IP 65.

Emergency-stop switch foolproof, EN IEC 60947-5-5

Note !

Mounting : The torque with which the fixing nut ist tightened must not exceed 50 Ncm.

Dismounting : Dismantling of switching element just with dismantling tool.

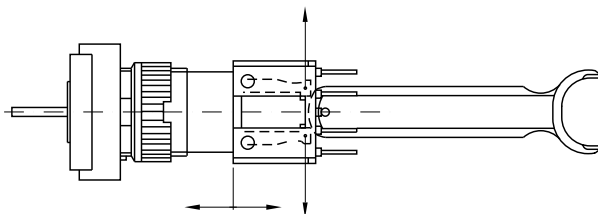


Keylock switch 45 mm

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 the front in fascia/control panel.
3. Reassemble the switch in the reverse order.

To detach terminal block



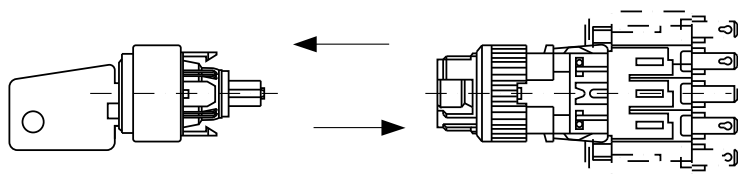
Keylock switch 55 mm

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

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

Zero position

Wiring diagram



Note !
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.

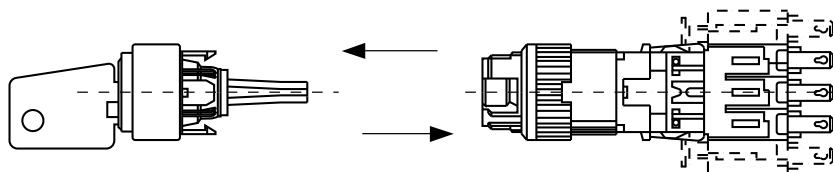
Keylock switch 70 mm

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

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

Zero position

Wiring diagram



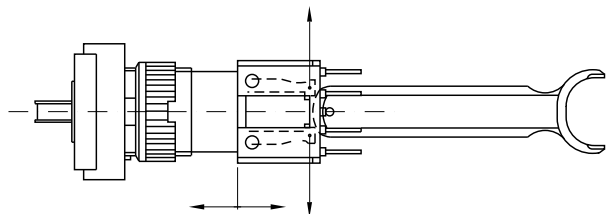
Note !
To assemble, the key must be at the zero position. The symbol 0 is at the top, and on the terminal block the circuit diagram is uppermost.

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 the front in fascia/control panel.
3. Reassemble the switch in the reverse order.

To detach terminal block



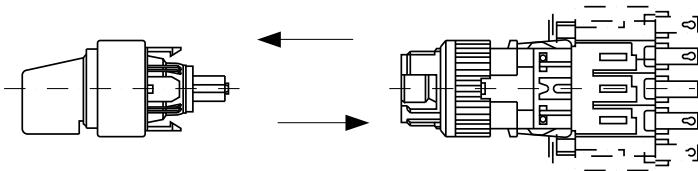
Selector switch 55 mm

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

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

Zero position

Wiring diagram



Note !

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.

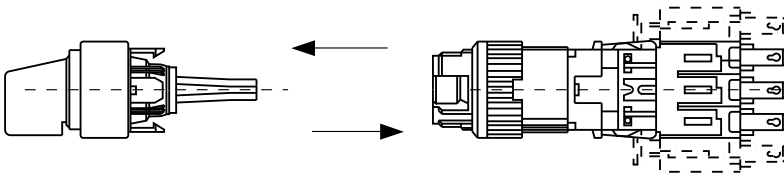
Selector switch 70 mm

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

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

Zero position

Wiring diagram



Note !

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.

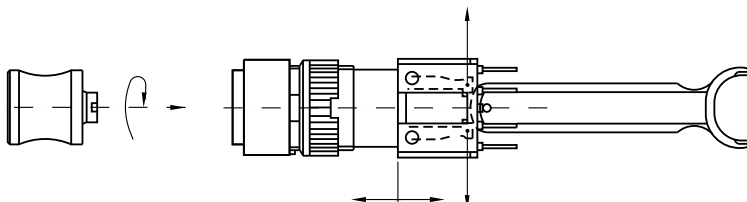
Illuminated push-pull pushbutton 45 mm

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 the front in fascia/control panel.
3. Reassemble the switch in the reverse order.

Push-pull knob




To detach terminal block




Indicator actuator 35 mm



Essential Accessories:

-  Lamp element block for 35 mm page 66
-  Lens plastic for button 35 mm page 54
-  Single-LED page 70

| | Front protection | \varnothing 18 x 18 mm Typ-Nr. | \varnothing 18 x 24 mm Typ-Nr. | \varnothing 18 mm Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing |  |
|---------------------------------|------------------|-------------------------------------|-------------------------------------|--------------------------------|---------------------|-------------------|-----------------|---|
| Indicator actuator 35 mm | IP 40 | 690-4000-00 | 690-6000-00 | 690-2000-00 | 5 | 5 | 2 | 0.004 |
| Lampholder T1 $\frac{3}{4}$ MG | IP 65 | 690-4000-W0 | 690-6000-W0 | 690-2000-W0 | 6 | 5 | 2 | 0.005 |

Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99




Indicator actuator 30 - 70 mm

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

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \varnothing 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

-  Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
-  Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
-  Single-LED page 70

| | Mounting depth | Terminals | Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing |  |
|--------------------------------------|----------------|-----------|--------------------|---------------------|-------------------|-----------------|---|
| Indicator actuator 30 - 70 mm | 30 mm | S1 | 990-.000-K0 | 7 | 18 | 2 | 0.004 |
| Lampholder T1 $\frac{3}{4}$ MG | 52 mm | P | 990-.000-0P | 7 | 26 | 2 | 0.007 |
| | 55 mm | S1 | 990-.000-00 | 7 | 16 | 2 | 0.007 |
| Lampholder T5.5 | 45 mm | S1 | 890-.000-K0 | 7 | 15 | 2 | 0.006 |
| | 67 mm | P | 890-.000-0P | 7 | 17 | 2 | 0.010 |
| | 70 mm | S1 | 890-.000-00 | 7 | 19 | 2 | 0.010 |

Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm), P = PCB terminal



Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99


Buzzer actuator 30 - 55 mm

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \square 18 x 24 mm



Essential Accessories:

-  Buzzer element page 60
-  Front bezel for Buzzer for 30- 55 mm page 62

| | Front protection | Mounting depth | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing |  |
|--|------------------|----------------|-----------|-------------------|------------------|---------------------|-------------------|-----------------|---|
| Buzzer actuator 30 - 55 mm Buzzer socket T1 ³ / ₄ MG | IP 40 | 30 mm | S1 | 970-000-K0 | | 11 | 18 | 1 | 0.004 |
| | | 52 mm | P | 970-000-0P | 1 | 11 | 26 | 1 | 0.007 |
| | | 64 mm | S1 | 970-000-00 | | 11 | 16 | 1 | 0.007 |

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





Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm), P = PCB terminal


Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated pushbutton actuator 35 mm



Essential Accessories:

-  Front bezel set, flush mounting page 62
-  Lens plastic for button 35 mm page 54
-  Single-LED page 70
-  Snap-action switching element block for 35 mm page 66

| | Front protection | Switching action | \varnothing 18 x 18 mm Typ-Nr. | \varnothing 18 x 24 mm Typ-Nr. | \varnothing 18 mm Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing |  |
|--|------------------|------------------|-------------------------------------|-------------------------------------|--------------------------------|---------------------|-------------------|-----------------|---|
| Illuminated pushbutton actuator 35 mm Lampholder T1 ³ / ₄ MG | IP 40 | R (Ir) | 600-4000-00 | 600-6000-00 | 600-2000-00 | 5 | 5 | 15 | 0.004 |
| | | M | 680-4000-00 | 680-6000-00 | 680-2000-00 | 5 | 5 | 32 | 0.004 |
| | IP 65 | R (Ir) | 600-4000-W0 | 600-6000-W0 | 600-2000-W0 | 6 | 5 | 15 | 0.005 |
| | | M | 680-4000-W0 | 680-6000-W0 | 680-2000-W0 | 6 | 5 | 32 | 0.005 |

Switching action: R (Ir) = Maintained action (switchable to momentary action), M = Momentary action

Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated pushbutton actuator 55 - 70 mm

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

Actuators usable for front dimensions: □ 24 x 24 mm | □ 18 x 18 mm | □ 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

- ☞ Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
- ☞ Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
- ☞ Single-LED page 70

| | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | | Mounting dimensions | | Technical drawing | | Circuit drawing |
|---|----------------|-------------|------------------|-----------|--------------------|------------------|---|---------------------|----|-------------------|----|-----------------|
| | | | | | | 1 | 7 | 8 | 14 | 8 | 14 | |
| Illuminated pushbutton actuator 55 - 70 mm Lampholder T1 3/4 MG | 52 mm | 1 NC + 1 NO | R (Ir) | P | 901-.000-0P | 1 | 7 | 8 | 14 | 0.013 | | |
| | | 2 NC + 2 NO | R (Ir) | P | 902-.000-0P | 1 | 7 | 8 | 8 | 0.014 | | |
| | | 3 NC + 3 NO | R (Ir) | P | 903-.000-0P | 1 | 7 | 8 | 12 | 0.014 | | |
| | | 4 NC + 4 NO | R (Ir) | P | 904-.000-0P | 1 | 7 | 8 | 11 | 0.018 | | |
| | | 5 NC + 5 NO | R (Ir) | P | 905-.000-0P | 1 | 7 | 8 | 6 | 0.021 | | |
| | 55 mm | 1 NC + 1 NO | R (Ir) | S1 | 901-.000-00 | | 7 | 4 | 14 | 0.013 | | |
| | | 2 NC + 2 NO | R (Ir) | S1 | 902-.000-00 | | 7 | 4 | 8 | 0.014 | | |
| | | 3 NC + 3 NO | R (Ir) | S1 | 903-.000-00 | | 7 | 4 | 12 | 0.015 | | |
| | | 4 NC + 4 NO | R (Ir) | S1 | 904-.000-00 | | 7 | 4 | 11 | 0.019 | | |
| | | 5 NC + 5 NO | R (Ir) | S1 | 905-.000-00 | | 7 | 4 | 6 | 0.022 | | |
| Lampholder T5.5 | 67 mm | 1 NC + 1 NO | R (Ir) | P | 801-.000-0P | 1 | 7 | 12 | 14 | 0.015 | | |
| | | 2 NC + 2 NO | R (Ir) | P | 802-.000-0P | 1 | 7 | 12 | 8 | 0.016 | | |
| | | 3 NC + 3 NO | R (Ir) | P | 803-.000-0P | 1 | 7 | 12 | 12 | 0.017 | | |
| | | 4 NC + 4 NO | R (Ir) | P | 804-.000-0P | 1 | 7 | 12 | 11 | 0.020 | | |
| | | 5 NC + 5 NO | R (Ir) | P | 805-.000-0P | 1 | 7 | 12 | 6 | 0.023 | | |
| | 70 mm | 1 NC + 1 NO | R (Ir) | S1 | 801-.000-00 | | 7 | 11 | 14 | 0.015 | | |
| | | 2 NC + 2 NO | R (Ir) | S1 | 802-.000-00 | | 7 | 11 | 8 | 0.016 | | |
| | | 3 NC + 3 NO | R (Ir) | S1 | 803-.000-00 | | 7 | 11 | 12 | 0.017 | | |
| | | 4 NC + 4 NO | R (Ir) | S1 | 804-.000-00 | | 7 | 11 | 11 | 0.021 | | |
| | | 5 NC + 5 NO | R (Ir) | S1 | 805-.000-00 | | 7 | 11 | 6 | 0.024 | | |

Contacts: NC = Normally closed, NO = Normally open

Switching action: R (Ir) = Maintained action (switchable to momentary action)

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Stop pushbutton 55 - 70 mm



| | Front protection | Mounting depth | Mushroom had cap | Contacts | Terminals | Ø 24 mm Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|------------------|----------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Stop pushbutton 55 - 70 mm Key to unlock clockwise standard lock B2 390 | IP 40 | 52 mm | Plastic red | 1 NC | P | 961+2401-0P | 1 | 14 | 31 | 57 | 0.030 |
| | | | | 2 NC | P | 962+2401-0P | 1 | 14 | 31 | 56 | 0.031 |
| | | | | 3 NC | P | 963+2401-0P | 1 | 14 | 31 | 55 | 0.032 |
| | | 64 mm | Plastic red | 1 NC | S1 | 961+2401-00 | | 14 | 24 | 57 | 0.030 |
| | | | | 2 NC | S1 | 962+2401-00 | | 14 | 24 | 56 | 0.031 |
| | | | | 3 NC | S1 | 963+2401-00 | | 14 | 24 | 55 | 0.032 |
| | | 67 mm | Plastic red | 1 NC | P | 861+2401-0P | 1 | 14 | 40 | 57 | 0.033 |
| | | | | 2 NC | P | 862+2401-0P | 1 | 14 | 40 | 56 | 0.034 |
| | | | | 3 NC | P | 863+2401-0P | 1 | 14 | 40 | 55 | 0.035 |
| | | 70 mm | Plastic red | 1 NC | S1 | 861+2401-00 | | 14 | 39 | 57 | 0.033 |
| | | | | 2 NC | S1 | 862+2401-00 | | 14 | 39 | 56 | 0.034 |
| | | | | 3 NC | S1 | 863+2401-00 | | 14 | 39 | 55 | 0.035 |
| | IP 65 | 52 mm | Plastic red | 1 NC | P | 961+2401-WP | 1 | 15 | 31 | 57 | 0.030 |
| | | | | 2 NC | P | 962+2401-WP | 1 | 15 | 31 | 56 | 0.031 |
| | | | | 3 NC | P | 963+2401-WP | 1 | 15 | 31 | 55 | 0.032 |
| | | 64 mm | Plastic red | 1 NC | S1 | 961+2401-W0 | | 15 | 24 | 57 | 0.030 |
| | | | | 2 NC | S1 | 962+2401-W0 | | 15 | 24 | 56 | 0.031 |
| | | | | 3 NC | S1 | 963+2401-W0 | | 15 | 24 | 55 | 0.032 |
| | | 67 mm | Plastic red | 1 NC | P | 861+2401-WP | 1 | 15 | 40 | 57 | 0.033 |
| | | | | 2 NC | P | 862+2401-WP | 1 | 15 | 40 | 56 | 0.034 |
| 3 NC | | | | P | 863+2401-WP | 1 | 15 | 40 | 55 | 0.035 | |
| 70 mm | | Plastic red | 1 NC | S1 | 861+2401-W0 | | 15 | 39 | 57 | 0.033 | |
| | | | 2 NC | S1 | 862+2401-W0 | | 15 | 39 | 56 | 0.034 | |
| | | | 3 NC | S1 | 863+2401-W0 | | 15 | 39 | 55 | 0.035 | |

Continuation see next page

Continued from previous page

| | Front protection | Mounting depth | Mushroom had cap | Contacts | Terminals | Ø 24 mm Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | (%) |
|--|------------------|----------------|------------------|----------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Stop pushbutton 55 - 70 mm Twist to unlock clockwise | IP 40 | 52 mm | Plastic red | 1 NC | P | 951+2000-0P | 1 | 14 | 31 | 57 | 0.018 |
| | | | | 2 NC | P | 952+2000-0P | 1 | 14 | 31 | 56 | 0.019 |
| | | | | 3 NC | P | 953+2000-0P | 1 | 14 | 31 | 55 | 0.020 |
| | | 55 mm | Plastic red | 1 NC | S1 | 951+2000-00 | | 14 | 24 | 57 | 0.018 |
| | | | | 2 NC | S1 | 952+2000-00 | | 14 | 24 | 56 | 0.019 |
| | | | | 3 NC | S1 | 953+2000-00 | | 14 | 24 | 55 | 0.020 |
| | | 67 mm | Plastic red | 1 NC | P | 851+2000-0P | 1 | 14 | 40 | 57 | 0.021 |
| | | | | 2 NC | P | 852+2000-0P | 1 | 14 | 40 | 56 | 0.022 |
| | | | | 3 NC | P | 853+2000-0P | 1 | 14 | 40 | 55 | 0.023 |
| | | 70 mm | Plastic red | 1 NC | S1 | 851+2000-00 | | 14 | 39 | 57 | 0.021 |
| | | | | 2 NC | S1 | 852+2000-00 | | 14 | 39 | 56 | 0.022 |
| | | | | 3 NC | S1 | 853+2000-00 | | 14 | 39 | 55 | 0.023 |
| | IP 65 | 52 mm | Plastic red | 1 NC | P | 951+2000-WP | 1 | 15 | 31 | 57 | 0.018 |
| | | | | 2 NC | P | 952+2000-WP | 1 | 15 | 31 | 56 | 0.019 |
| | | | | 3 NC | P | 953+2000-WP | 1 | 15 | 31 | 55 | 0.020 |
| | | 64 mm | Plastic red | 1 NC | S1 | 951+2000-W0 | | 15 | 24 | 57 | 0.018 |
| | | | | 2 NC | S1 | 952+2000-W0 | | 15 | 24 | 56 | 0.019 |
| | | | | 3 NC | S1 | 953+2000-W0 | | 15 | 24 | 55 | 0.020 |
| | | 67 mm | Plastic red | 1 NC | P | 851+2000-WP | 1 | 15 | 40 | 57 | 0.021 |
| | | | | 2 NC | P | 852+2000-WP | 1 | 15 | 40 | 56 | 0.022 |
| | | | | 3 NC | P | 853+2000-WP | 1 | 15 | 40 | 55 | 0.023 |
| | | 70 mm | Plastic red | 1 NC | S1 | 851+2000-W0 | | 15 | 39 | 57 | 0.021 |
| | | | | 2 NC | S1 | 852+2000-W0 | | 15 | 39 | 56 | 0.022 |
| | | | | 3 NC | S1 | 853+2000-W0 | | 15 | 39 | 55 | 0.023 |

Note :

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.
 Other keylock numbers on request
 Contacts: NC = Normally closed
 Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)
 Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Emergency-stop pushbutton, foolproof EN IEC 60947-5-5

Application as per DIN EN ISO 13850 and EN 60204-1



| | Front protection | Mounting depth | Mushroom had cap | Contacts | Terminals | Ø 27 mm Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|------------------|-------------|-----------|--------------------|---------------------|-------------------|-----------------|-------|
| Emergency-stop pushbutton, foolproof EN IEC 60947-5-5 Position indication ring black Key to unlock clockwise Standard lock 1001 | IP 65 | 41 mm | Plastic red | 1 NC | S1 | 561-8101-W0 | 3 | 3 | 54 | 0.047 |
| | | | | 1 NC + 1 NO | S1 | 563-8101-W0 | 3 | 3 | 58 | 0.047 |
| | | | | 2 NC | S1 | 562-8101-W0 | 3 | 3 | 53 | 0.047 |
| Position indication ring black Twist to unlock clockwise | IP 65 | 41 mm | Plastic red | 1 NC | S1 | 551-8000-W0 | 3 | 3 | 54 | 0.025 |
| | | | | 1 NC + 1 NO | S1 | 553-8000-W0 | 3 | 3 | 58 | 0.025 |
| | | | | 2 NC | S1 | 552-8000-W0 | 3 | 3 | 53 | 0.025 |

Mounting hint: Starting torque for fixing nut max. 50 Ncm

Other lock numbers on request

Contacts: NC = Normally closed, NO = Normally open

Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Mushroom-head pushbutton actuator 55 - 70 mm

Actuators usable for front dimensions: \square 24 x 24 mm | \square 18 x 24 mm | 24 mm dia.



Essential Accessories:

Front bezel for Mushroom-head pushbutton 55 - 70 mm page 61

Mushroom-head cap page 57

| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Mushroom-head pushbutton actuator 55 - 70 mm | IP 40 | 52 mm | 1 NC + 1 NO | R (lr) | P | 901-.000-0P | 1 | 8 | 7 | 13 | 0.013 |
| | | | 2 NC + 2 NO | R (lr) | P | 902-.000-0P | 1 | 8 | 7 | 7 | 0.014 |
| | | | 3 NC + 3 NO | R (lr) | P | 903-.000-0P | 1 | 8 | 7 | 9 | 0.014 |
| | | | 4 NC + 4 NO | R (lr) | P | 904-.000-0P | 1 | 8 | 7 | 10 | 0.018 |
| | | | 5 NC + 5 NO | R (lr) | P | 905-.000-0P | 1 | 8 | 7 | 5 | 0.021 |
| | | 55 mm | 1 NC + 1 NO | R (lr) | S1 | 901-.000-00 | | 8 | 6 | 13 | 0.013 |
| | | | 2 NC + 2 NO | R (lr) | S1 | 902-.000-00 | | 8 | 6 | 7 | 0.014 |
| | | | 3 NC + 3 NO | R (lr) | S1 | 903-.000-00 | | 8 | 6 | 9 | 0.015 |
| | | | 4 NC + 4 NO | R (lr) | S1 | 904-.000-00 | | 8 | 6 | 10 | 0.019 |
| | | | 5 NC + 5 NO | R (lr) | S1 | 905-.000-00 | | 8 | 6 | 5 | 0.022 |
| | | 67 mm | 1 NC + 1 NO | R (lr) | P | 801-.000-0P | 1 | 8 | 14 | 13 | 0.015 |
| | | | 2 NC + 2 NO | R (lr) | P | 802-.000-0P | 1 | 8 | 14 | 7 | 0.016 |
| | | | 3 NC + 3 NO | R (lr) | P | 803-.000-0P | 1 | 8 | 14 | 9 | 0.017 |
| | | | 4 NC + 4 NO | R (lr) | P | 804-.000-0P | 1 | 8 | 14 | 10 | 0.020 |
| | | | 5 NC + 5 NO | R (lr) | P | 805-.000-0P | 1 | 8 | 14 | 5 | 0.023 |
| | | 70 mm | 1 NC + 1 NO | R (lr) | S1 | 801-.000-00 | | 8 | 13 | 13 | 0.015 |
| | | | 2 NC + 2 NO | R (lr) | S1 | 802-.000-00 | | 8 | 13 | 7 | 0.016 |
| | | | 3 NC + 3 NO | R (lr) | S1 | 803-.000-00 | | 8 | 13 | 9 | 0.017 |
| | | | 4 NC + 4 NO | R (lr) | S1 | 804-.000-00 | | 8 | 13 | 10 | 0.021 |
| | | | 5 NC + 5 NO | R (lr) | S1 | 805-.000-00 | | 8 | 13 | 5 | 0.024 |

Contacts: NC = Normally closed, NO = Normally open

Switching action: R (lr) = Maintained action (switchable to momentary action)

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

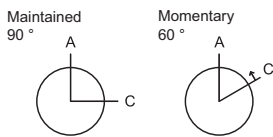
Keylock switch actuator 2 positions 45 mm

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \square 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 2 positions page 58



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|-------------|------------------|-----------|------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 2 positions 45 mm Standard lock B2 300 | IP 40 | 42 mm | 1 NC + 1 NO | MA | P | A | 771-.401-0P | 1 | 9 | 29 | 47 | 0.022 |
| | | | | | | C + A | 761-.401-0P | 1 | 9 | 29 | 47 | 0.022 |
| | | | | M | P | A | 781-.401-0P | 1 | 9 | 29 | 41 | 0.022 |
| | | | 2 NC + 2 NO | MA | P | A | 772-.401-0P | 1 | 9 | 29 | 49 | 0.023 |
| | | | | | | C + A | 762-.401-0P | 1 | 9 | 29 | 49 | 0.023 |
| | | | | M | P | A | 782-.401-0P | 1 | 9 | 29 | 43 | 0.023 |
| | | 45 mm | 1 NC + 1 NO | MA | S1 | A | 771-.401-00 | | 9 | 22 | 47 | 0.022 |
| | | | | | | C + A | 761-.401-00 | | 9 | 22 | 47 | 0.022 |
| | | | | M | S1 | A | 781-.401-00 | | 9 | 22 | 41 | 0.022 |
| | | | 2 NC + 2 NO | MA | S1 | A | 772-.401-00 | | 9 | 22 | 49 | 0.023 |
| | | | | | | C + A | 762-.401-00 | | 9 | 22 | 49 | 0.023 |
| | | | | M | S1 | A | 782-.401-00 | | 9 | 22 | 43 | 0.023 |
| | IP 65 | 42 mm | 1 NC + 1 NO | MA | P | A | 771-.401-WP | 1 | 10 | 29 | 47 | 0.022 |
| | | | | | | C + A | 761-.401-WP | 1 | 10 | 29 | 47 | 0.022 |
| | | | | M | P | A | 781-.401-WP | 1 | 10 | 29 | 41 | 0.022 |
| | | | 2 NC + 2 NO | MA | P | A | 772-.401-WP | 1 | 10 | 29 | 49 | 0.023 |
| | | | | | | C + A | 762-.401-WP | 1 | 10 | 29 | 49 | 0.023 |
| | | | | M | P | A | 782-.401-WP | 1 | 10 | 29 | 43 | 0.023 |
| | | 45 mm | 1 NC + 1 NO | MA | S1 | A | 771-.401-W0 | | 10 | 22 | 47 | 0.022 |
| | | | | | | C + A | 761-.401-W0 | | 10 | 22 | 47 | 0.022 |
| | | | | M | S1 | A | 781-.401-W0 | | 10 | 22 | 41 | 0.022 |
| | | | 2 NC + 2 NO | MA | S1 | A | 772-.401-W0 | | 10 | 22 | 49 | 0.023 |
| | | | | | | C + A | 762-.401-W0 | | 10 | 22 | 49 | 0.023 |
| | | | | M | S1 | A | 782-.401-W0 | | 10 | 22 | 43 | 0.023 |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

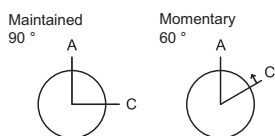
Keylock switch actuator 2 positions 55 mm

Actuators usable for front dimensions: \square 24 x 24 mm | \square 18 x 18 mm | \square 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

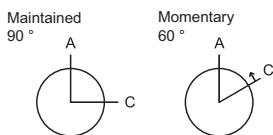
Front bezel for Keylock switch and Selector switch 2 positions page 58



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | | Technical drawing | Circuit drawing | | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|-------------------|-----------------|-------|-------|
| | | | | | | | | Mounting dimensions | | | | | |
| Keylock switch actuator 2 positions 55 mm Standard lock B2 300 | IP 40 | 52 mm | 1 NC + 1 NO | MA | P | A | 921-.401-0P | 1 | 9 | 27 | 52 | 0.024 | |
| | | | | | | | C + A | 911-.401-0P | 1 | 9 | 27 | 52 | 0.024 |
| | | | M | P | A | 931-.401-0P | 1 | 9 | 27 | 46 | 0.024 | | |
| | | | | | | C + A | 912-.401-0P | 1 | 9 | 27 | 49 | 0.025 | |
| | | | 2 NC + 2 NO | MA | P | A | 922-.401-0P | 1 | 9 | 27 | 49 | 0.025 | |
| | | | | | | | C + A | 912-.401-0P | 1 | 9 | 27 | 49 | 0.025 |
| | | | M | P | A | 932-.401-0P | 1 | 9 | 27 | 43 | 0.025 | | |
| | | | | | | C + A | 913-.401-0P | 1 | 9 | 27 | 50 | 0.026 | |
| | | | 3 NC + 3 NO | MA | P | A | 923-.401-0P | 1 | 9 | 27 | 50 | 0.026 | |
| | | | | | | | C + A | 913-.401-0P | 1 | 9 | 27 | 50 | 0.026 |
| | | | M | P | A | 933-.401-0P | 1 | 9 | 27 | 44 | 0.026 | | |
| | | | | | | C + A | 914-.401-0P | 1 | 9 | 27 | 51 | 0.029 | |
| | | 4 NC + 4 NO | MA | P | A | 924-.401-0P | 1 | 9 | 27 | 51 | 0.029 | | |
| | | | | | | C + A | 914-.401-0P | 1 | 9 | 27 | 51 | 0.029 | |
| | | M | P | A | 934-.401-0P | 1 | 9 | 27 | 45 | 0.029 | | | |
| | | | | | C + A | 915-.401-0P | 1 | 9 | 27 | 48 | 0.032 | | |
| | | 5 NC + 5 NO | MA | P | A | 925-.401-0P | 1 | 9 | 27 | 48 | 0.032 | | |
| | | | | | | C + A | 915-.401-0P | 1 | 9 | 27 | 48 | 0.032 | |
| | | M | P | A | 935-.401-0P | 1 | 9 | 27 | 42 | 0.032 | | | |
| | | | | | C + A | 915-.401-0P | 1 | 9 | 27 | 48 | 0.032 | | |
| | | 55 mm | | 1 NC + 1 NO | MA | S1 | A | 921-.401-00 | | 9 | 20 | 52 | 0.024 |
| | | | | | | | | C + A | 911-.401-00 | | 9 | 20 | 52 |
| | | | | M | S1 | A | 931-.401-00 | | 9 | 20 | 46 | 0.024 | |
| | | | | | | | C + A | 912-.401-00 | | 9 | 20 | 49 | 0.025 |
| 2 NC + 2 NO | MA | | | S1 | A | 922-.401-00 | | 9 | 20 | 49 | 0.025 | | |
| | | | | | | C + A | 912-.401-00 | | 9 | 20 | 49 | 0.025 | |
| M | S1 | | | A | 932-.401-00 | | 9 | 20 | 43 | 0.025 | | | |
| | | | | | C + A | 913-.401-00 | | 9 | 20 | 50 | 0.027 | | |
| 3 NC + 3 NO | MA | | | S1 | A | 923-.401-00 | | 9 | 20 | 50 | 0.027 | | |
| | | | | | | C + A | 913-.401-00 | | 9 | 20 | 50 | 0.027 | |
| M | S1 | | | A | 933-.401-00 | | 9 | 20 | 44 | 0.027 | | | |
| | | | | | C + A | 914-.401-00 | | 9 | 20 | 51 | 0.030 | | |
| 4 NC + 4 NO | MA | S1 | A | 924-.401-00 | | 9 | 20 | 51 | 0.030 | | | | |
| | | | | C + A | 914-.401-00 | | 9 | 20 | 51 | 0.030 | | | |
| M | S1 | A | 934-.401-00 | | 9 | 20 | 45 | 0.030 | | | | | |
| | | | C + A | 915-.401-00 | | 9 | 20 | 48 | 0.033 | | | | |
| 5 NC + 5 NO | MA | S1 | A | 925-.401-00 | | 9 | 20 | 48 | 0.033 | | | | |
| | | | | C + A | 915-.401-00 | | 9 | 20 | 48 | 0.033 | | | |
| M | S1 | A | 935-.401-00 | | 9 | 20 | 42 | 0.033 | | | | | |
| | | | C + A | 915-.401-00 | | 9 | 20 | 48 | 0.033 | | | | |

Continuation see next page

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 2 positions 55 mm Standard lock B2 300 | IP 65 | 52 mm | 1 NC + 1 NO | MA | P | A | 921-.401-WP | 1 | 10 | 27 | 52 | 0.024 |
| | | | | | | C + A | 911-.401-WP | 1 | 10 | 27 | 52 | 0.024 |
| | | | M | P | A | 931-.401-WP | 1 | 10 | 27 | 46 | 0.024 | |
| | | | 2 NC + 2 NO | MA | P | A | 922-.401-WP | 1 | 10 | 27 | 49 | 0.025 |
| | | | | | | C + A | 912-.401-WP | 1 | 10 | 27 | 49 | 0.025 |
| | | | M | P | A | 932-.401-WP | 1 | 10 | 27 | 43 | 0.025 | |
| | | | 3 NC + 3 NO | MA | P | A | 923-.401-WP | 1 | 10 | 27 | 50 | 0.026 |
| | | | | | | C + A | 913-.401-WP | 1 | 10 | 27 | 50 | 0.026 |
| | | | M | P | A | 933-.401-WP | 1 | 10 | 27 | 44 | 0.026 | |
| | | | 4 NC + 4 NO | MA | P | A | 924-.401-WP | 1 | 10 | 27 | 51 | 0.029 |
| | | | | | | C + A | 914-.401-WP | 1 | 10 | 27 | 51 | 0.029 |
| | | | M | P | A | 934-.401-WP | 1 | 10 | 27 | 45 | 0.029 | |
| | | 5 NC + 5 NO | MA | P | A | 925-.401-WP | 1 | 10 | 27 | 48 | 0.032 | |
| | | | | | C + A | 915-.401-WP | 1 | 10 | 27 | 48 | 0.032 | |
| | | M | P | A | 935-.401-WP | 1 | 10 | 27 | 42 | 0.032 | | |
| | | 55 mm | 1 NC + 1 NO | MA | S1 | A | 921-.401-W0 | | 10 | 20 | 52 | 0.024 |
| | | | | | | C + A | 911-.401-W0 | | 10 | 20 | 52 | 0.024 |
| | | | M | S1 | A | 931-.401-W0 | | 10 | 20 | 46 | 0.024 | |
| | | | 2 NC + 2 NO | MA | S1 | A | 922-.401-W0 | | 10 | 20 | 49 | 0.025 |
| | | | | | | C + A | 912-.401-W0 | | 10 | 20 | 49 | 0.025 |
| | | | M | S1 | A | 932-.401-W0 | | 10 | 20 | 43 | 0.025 | |
| | | | 3 NC + 3 NO | MA | S1 | A | 923-.401-W0 | | 10 | 20 | 50 | 0.027 |
| | | | | | | C + A | 913-.401-W0 | | 10 | 20 | 50 | 0.027 |
| | | | M | S1 | A | 933-.401-W0 | | 10 | 20 | 44 | 0.027 | |
| 4 NC + 4 NO | MA | | S1 | A | 924-.401-W0 | | 10 | 20 | 51 | 0.030 | | |
| | | | | C + A | 914-.401-W0 | | 10 | 20 | 51 | 0.030 | | |
| M | S1 | | A | 934-.401-W0 | | 10 | 20 | 45 | 0.030 | | | |
| 5 NC + 5 NO | MA | S1 | A | 925-.401-W0 | | 10 | 20 | 48 | 0.033 | | | |
| | | | C + A | 915-.401-W0 | | 10 | 20 | 48 | 0.033 | | | |
| M | S1 | A | 935-.401-W0 | | 10 | 20 | 42 | 0.033 | | | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

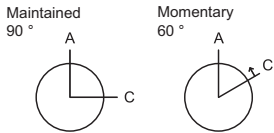
Keylock switch actuator 2 positions 70 mm

Actuators usable for front dimensions: \square 24 x 24 mm | \square 18 x 18 mm | \square 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

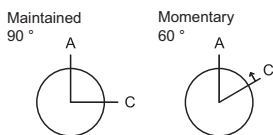
Front bezel for Keylock switch and Selector switch 2 positions page 58



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | | Technical drawing | Circuit drawing | |
|--|------------------|----------------|-------------|------------------|-------------|-------------|-------------|---------------------|-------|-------------------|-----------------|-------|
| | | | | | | | | Mounting dimensions | | | | |
| Keylock switch actuator 2 positions 70 mm Standard lock B2 300 | IP 40 | 67 mm | 1 NC + 1 NO | MA | P | A | 821-.401-0P | 1 | 9 | 53 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-0P | 1 | 9 | 53 | 52 |
| | | | M | P | A | 831-.401-0P | 1 | 9 | 53 | 46 | 0.026 | |
| | | | | | | C + A | 812-.401-0P | 1 | 9 | 53 | 49 | 0.027 |
| | | | 2 NC + 2 NO | MA | P | A | 822-.401-0P | 1 | 9 | 53 | 49 | 0.027 |
| | | | | | | | C + A | 812-.401-0P | 1 | 9 | 53 | 49 |
| | | | M | P | A | 832-.401-0P | 1 | 9 | 53 | 43 | 0.027 | |
| | | | | | | C + A | 813-.401-0P | 1 | 9 | 53 | 50 | 0.028 |
| | | | 3 NC + 3 NO | MA | P | A | 823-.401-0P | 1 | 9 | 53 | 50 | 0.028 |
| | | | | | | | C + A | 813-.401-0P | 1 | 9 | 53 | 50 |
| | | | M | P | A | 833-.401-0P | 1 | 9 | 53 | 44 | 0.028 | |
| | | | | | | C + A | 814-.401-0P | 1 | 9 | 53 | 51 | 0.031 |
| | | 4 NC + 4 NO | MA | P | A | 824-.401-0P | 1 | 9 | 53 | 51 | 0.031 | |
| | | | | | | C + A | 814-.401-0P | 1 | 9 | 53 | 51 | 0.031 |
| | | M | P | A | 834-.401-0P | 1 | 9 | 53 | 45 | 0.031 | | |
| | | | | | C + A | 815-.401-0P | 1 | 9 | 53 | 48 | 0.034 | |
| | | 5 NC + 5 NO | MA | P | A | 825-.401-0P | 1 | 9 | 53 | 48 | 0.034 | |
| | | | | | | C + A | 815-.401-0P | 1 | 9 | 53 | 48 | 0.034 |
| | | M | P | A | 835-.401-0P | 1 | 9 | 53 | 42 | 0.034 | | |
| | | | | | C + A | 815-.401-0P | 1 | 9 | 53 | 48 | 0.034 | |
| | | 70 mm | 1 NC + 1 NO | MA | S1 | A | 821-.401-00 | | 9 | 52 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-00 | | 9 | 52 | 52 |
| | | | M | S1 | A | 831-.401-00 | | 9 | 52 | 46 | 0.026 | |
| | | | | | | C + A | 812-.401-00 | | 9 | 52 | 49 | 0.027 |
| 2 NC + 2 NO | MA | | S1 | A | 822-.401-00 | | 9 | 52 | 49 | 0.027 | | |
| | | | | | C + A | 812-.401-00 | | 9 | 52 | 49 | 0.027 | |
| M | S1 | | A | 832-.401-00 | | 9 | 52 | 43 | 0.027 | | | |
| | | | | C + A | 813-.401-00 | | 9 | 52 | 50 | 0.029 | | |
| 3 NC + 3 NO | MA | | S1 | A | 823-.401-00 | | 9 | 52 | 50 | 0.029 | | |
| | | | | | C + A | 813-.401-00 | | 9 | 52 | 50 | 0.029 | |
| M | S1 | | A | 833-.401-00 | | 9 | 52 | 44 | 0.029 | | | |
| | | | | C + A | 814-.401-00 | | 9 | 52 | 51 | 0.032 | | |
| 4 NC + 4 NO | MA | S1 | A | 824-.401-00 | | 9 | 52 | 51 | 0.032 | | | |
| | | | | C + A | 814-.401-00 | | 9 | 52 | 51 | 0.032 | | |
| M | S1 | A | 834-.401-00 | | 9 | 52 | 45 | 0.032 | | | | |
| | | | C + A | 815-.401-00 | | 9 | 52 | 48 | 0.035 | | | |
| 5 NC + 5 NO | MA | S1 | A | 825-.401-00 | | 9 | 52 | 48 | 0.035 | | | |
| | | | | C + A | 815-.401-00 | | 9 | 52 | 48 | 0.035 | | |
| M | S1 | A | 835-.401-00 | | 9 | 52 | 42 | 0.035 | | | | |
| | | | C + A | 815-.401-00 | | 9 | 52 | 48 | 0.035 | | | |

Continuation see next page

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 2 positions 70 mm Standard lock B2 300 | IP 65 | 67 mm | 1 NC + 1 NO | MA | P | A | 821-.401-WP | 1 | 10 | 53 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-WP | 1 | 10 | 53 | 52 |
| | | | M | P | A | 831-.401-WP | 1 | 10 | 53 | 46 | 0.026 | |
| | | | | | | C + A | 822-.401-WP | 1 | 10 | 53 | 49 | 0.027 |
| | | | 2 NC + 2 NO | MA | P | A | 822-.401-WP | 1 | 10 | 53 | 49 | 0.027 |
| | | | | | | | C + A | 812-.401-WP | 1 | 10 | 53 | 49 |
| | | | M | P | A | 832-.401-WP | 1 | 10 | 53 | 43 | 0.027 | |
| | | | | | | C + A | 823-.401-WP | 1 | 10 | 53 | 50 | 0.028 |
| | | | 3 NC + 3 NO | MA | P | A | 823-.401-WP | 1 | 10 | 53 | 50 | 0.028 |
| | | | | | | | C + A | 813-.401-WP | 1 | 10 | 53 | 50 |
| | | | M | P | A | 833-.401-WP | 1 | 10 | 53 | 44 | 0.028 | |
| | | | | | | C + A | 824-.401-WP | 1 | 10 | 53 | 51 | 0.031 |
| | | | 4 NC + 4 NO | MA | P | A | 824-.401-WP | 1 | 10 | 53 | 51 | 0.031 |
| | | | | | | | C + A | 814-.401-WP | 1 | 10 | 53 | 51 |
| | | M | P | A | 834-.401-WP | 1 | 10 | 53 | 45 | 0.031 | | |
| | | | | | C + A | 825-.401-WP | 1 | 10 | 53 | 48 | 0.034 | |
| | | 5 NC + 5 NO | MA | P | A | 825-.401-WP | 1 | 10 | 53 | 48 | 0.034 | |
| | | | | | | C + A | 815-.401-WP | 1 | 10 | 53 | 48 | 0.034 |
| | | M | P | A | 835-.401-WP | 1 | 10 | 53 | 42 | 0.034 | | |
| | | | | | C + A | | | | | | | |
| | | 70 mm | 1 NC + 1 NO | MA | S1 | A | 821-.401-W0 | | 10 | 52 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-W0 | | 10 | 52 | 52 |
| | | | M | S1 | A | 831-.401-W0 | | 10 | 52 | 46 | 0.026 | |
| | | | | | | C + A | 822-.401-W0 | | 10 | 52 | 49 | 0.027 |
| | | | 2 NC + 2 NO | MA | S1 | A | 822-.401-W0 | | 10 | 52 | 49 | 0.027 |
| | | | | | | | C + A | 812-.401-W0 | | 10 | 52 | 49 |
| | | | M | S1 | A | 832-.401-W0 | | 10 | 52 | 43 | 0.027 | |
| | | | | | | C + A | 823-.401-W0 | | 10 | 52 | 50 | 0.029 |
| 3 NC + 3 NO | MA | | S1 | A | 823-.401-W0 | | 10 | 52 | 50 | 0.029 | | |
| | | | | | C + A | 813-.401-W0 | | 10 | 52 | 50 | 0.029 | |
| M | S1 | | A | 833-.401-W0 | | 10 | 52 | 44 | 0.029 | | | |
| | | | | C + A | 824-.401-W0 | | 10 | 52 | 51 | 0.032 | | |
| 4 NC + 4 NO | MA | | S1 | A | 824-.401-W0 | | 10 | 52 | 51 | 0.032 | | |
| | | | | | C + A | 814-.401-W0 | | 10 | 52 | 51 | 0.032 | |
| M | S1 | A | 834-.401-W0 | | 10 | 52 | 45 | 0.032 | | | | |
| | | | C + A | 825-.401-W0 | | 10 | 52 | 48 | 0.035 | | | |
| 5 NC + 5 NO | MA | S1 | A | 825-.401-W0 | | 10 | 52 | 48 | 0.035 | | | |
| | | | | C + A | 815-.401-W0 | | 10 | 52 | 48 | 0.035 | | |
| M | S1 | A | 835-.401-W0 | | 10 | 52 | 42 | 0.035 | | | | |
| | | | C + A | | | | | | | | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

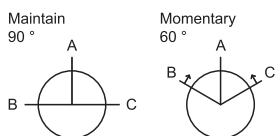
Keylock switch actuator 3 positions 45 mm

Actuators usable for front dimensions: \square 24 x 24 mm | \square 18 x 18 mm | \square 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 3 positions page 59



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 3 positions 45 mm Standard lock B2 300 | IP 40 | 42 mm | 2 NC + 2 NO | 0-MA-MA | P | B + A + C | 722-.401-0P | 1 | 9 | 29 | 40 | 0.023 |
| | | | | MA-0-MA | P | B + A + C | 712-.401-0P | 1 | 9 | 29 | 40 | 0.023 |
| | | | | MA-0-M | P | B + A | 742-.401-0P | 1 | 9 | 29 | 39 | 0.023 |
| | | | | M-0-MA | P | C + A | 752-.401-0P | 1 | 9 | 29 | 38 | 0.023 |
| | | M-0-M | P | A | 732-.401-0P | 1 | 9 | 29 | 37 | 0.023 | | |
| | | 45 mm | 2 NC + 2 NO | 0-MA-MA | S1 | B + A + C | 722-.401-00 | | 9 | 22 | 40 | 0.023 |
| | | | | MA-0-MA | S1 | B + A + C | 712-.401-00 | | 9 | 22 | 40 | 0.023 |
| | | | | MA-0-M | S1 | B + A | 742-.401-00 | | 9 | 22 | 39 | 0.023 |
| | M-0-MA | | | S1 | C + A | 752-.401-00 | | 9 | 22 | 38 | 0.023 | |
| | M-0-M | S1 | A | 732-.401-00 | | 9 | 22 | 37 | 0.023 | | | |
| | IP 65 | 42 mm | 2 NC + 2 NO | 0-MA-MA | P | B + A + C | 722-.401-WP | 1 | 10 | 29 | 40 | 0.023 |
| | | | | MA-0-MA | P | B + A + C | 712-.401-WP | 1 | 10 | 29 | 40 | 0.023 |
| | | | | MA-0-M | P | B + A | 742-.401-WP | 1 | 10 | 29 | 39 | 0.023 |
| | | | | M-0-MA | P | C + A | 752-.401-WP | 1 | 10 | 29 | 38 | 0.023 |
| | | M-0-M | P | A | 732-.401-WP | 1 | 10 | 29 | 37 | 0.023 | | |
| | | 45 mm | 2 NC + 2 NO | 0-MA-MA | S1 | B + A + C | 722-.401-W0 | | 10 | 22 | 40 | 0.023 |
| MA-0-MA | | | | S1 | B + A + C | 712-.401-W0 | | 10 | 22 | 40 | 0.023 | |
| MA-0-M | | | | S1 | B + A | 742-.401-W0 | | 10 | 22 | 39 | 0.023 | |
| M-0-MA | S1 | | | C + A | 752-.401-W0 | | 10 | 22 | 38 | 0.023 | | |
| M-0-M | S1 | A | 732-.401-W0 | | 10 | 22 | 37 | 0.023 | | | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)



Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

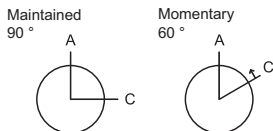
Selector switch actuator 2 positions 45 mm

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \square 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Selector switch actuator 2 positions 45 mm | IP 40 | 42 mm | 1 NC + 1 NO | MA | P | 761-.700-0P | 1 | 1 | 30 | 26 | 0.011 |
| | | | | M | P | 781-.700-0P | 1 | 1 | 30 | 20 | 0.011 |
| | | 45 mm | 1 NC + 1 NO | MA | S1 | 761-.700-00 | | 1 | 23 | 26 | 0.011 |
| | | | | M | S1 | 781-.700-00 | | 1 | 23 | 20 | 0.011 |
| | | 45 mm | 2 NC + 2 NO | MA | S1 | 762-.700-00 | | 1 | 23 | 28 | 0.012 |
| | | | | M | S1 | 782-.700-00 | | 1 | 23 | 22 | 0.012 |
| | IP 65 | 42 mm | 1 NC + 1 NO | MA | P | 761-.700-WP | 1 | 2 | 30 | 26 | 0.011 |
| | | | | M | P | 781-.700-WP | 1 | 2 | 30 | 20 | 0.011 |
| | | 45 mm | 1 NC + 1 NO | MA | S1 | 761-.700-W0 | | 2 | 23 | 26 | 0.011 |
| | | | | M | S1 | 781-.700-W0 | | 2 | 23 | 20 | 0.011 |
| | | 45 mm | 2 NC + 2 NO | MA | S1 | 762-.700-W0 | | 2 | 23 | 28 | 0.012 |
| | | | | M | S1 | 782-.700-W0 | | 2 | 23 | 22 | 0.012 |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)



Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

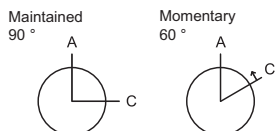
Selector switch actuator 2 positions 55 mm


Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \varnothing 18 x 24 mm | 24 mm dia. | 18 mm dia.



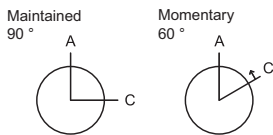
Essential Accessories:

-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | | Typ-Nr. | Component layout | | Technical drawing | Circuit drawing |  |
|---|------------------|----------------|-------------|------------------|----|--------------------|---------------------|---|-------------------|-----------------|---|
| | | | | Terminals | | | Mounting dimensions | | | | |
| Selector switch actuator 2 positions 55 mm | IP 40 | 52 mm | 1 NC + 1 NO | MA | P | 911-.700-0P | 1 | 1 | 28 | 31 | 0.013 |
| | | | | M | P | 931-.700-0P | 1 | 1 | 28 | 25 | 0.013 |
| | | | 2 NC + 2 NO | MA | P | 912-.700-0P | 1 | 1 | 28 | 28 | 0.014 |
| | | | | M | P | 932-.700-0P | 1 | 1 | 28 | 22 | 0.014 |
| | | | 3 NC + 3 NO | MA | P | 913-.700-0P | 1 | 1 | 28 | 29 | 0.015 |
| | | | | M | P | 933-.700-0P | 1 | 1 | 28 | 23 | 0.015 |
| | | | 4 NC + 4 NO | MA | P | 914-.700-0P | 1 | 1 | 28 | 30 | 0.018 |
| | | | | M | P | 934-.700-0P | 1 | 1 | 28 | 24 | 0.018 |
| | | | 5 NC + 5 NO | MA | P | 915-.700-0P | 1 | 1 | 28 | 27 | 0.022 |
| | | | | M | P | 935-.700-0P | 1 | 1 | 28 | 21 | 0.022 |
| | | 55 mm | 1 NC + 1 NO | MA | S1 | 911-.700-00 | | 1 | 21 | 31 | 0.013 |
| | | | | M | S1 | 931-.700-00 | | 1 | 21 | 25 | 0.013 |
| | | | 2 NC + 2 NO | MA | S1 | 912-.700-00 | | 1 | 21 | 28 | 0.014 |
| | | | | M | S1 | 932-.700-00 | | 1 | 21 | 22 | 0.014 |
| | | | 3 NC + 3 NO | MA | S1 | 913-.700-00 | | 1 | 21 | 29 | 0.015 |
| | | | | M | S1 | 933-.700-00 | | 1 | 21 | 23 | 0.015 |
| | | | 4 NC + 4 NO | MA | S1 | 914-.700-00 | | 1 | 21 | 30 | 0.019 |
| | | | | M | S1 | 934-.700-00 | | 1 | 21 | 24 | 0.019 |
| | | | 5 NC + 5 NO | MA | S1 | 915-.700-00 | | 1 | 21 | 27 | 0.023 |
| | | | | M | S1 | 935-.700-00 | | 1 | 21 | 21 | 0.023 |

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Selector switch actuator 2 positions 55 mm | IP 65 | 52 mm | 1 NC + 1 NO | MA | P | 911-.700-WP | 1 | 2 | 28 | 31 | 0.013 |
| | | | | M | P | 931-.700-WP | 1 | 2 | 28 | 25 | 0.013 |
| | | | 2 NC + 2 NO | MA | P | 912-.700-WP | 1 | 2 | 28 | 28 | 0.014 |
| | | | | M | P | 932-.700-WP | 1 | 2 | 28 | 22 | 0.014 |
| | | | 3 NC + 3 NO | MA | P | 913-.700-WP | 1 | 2 | 28 | 29 | 0.015 |
| | | | | M | P | 933-.700-WP | 1 | 2 | 28 | 23 | 0.015 |
| | | | 4 NC + 4 NO | MA | P | 914-.700-WP | 1 | 2 | 28 | 30 | 0.018 |
| | | | | M | P | 934-.700-WP | 1 | 2 | 28 | 24 | 0.018 |
| | | | 5 NC + 5 NO | MA | P | 915-.700-WP | 1 | 2 | 28 | 27 | 0.022 |
| | | | | M | P | 935-.700-WP | 1 | 2 | 28 | 21 | 0.022 |
| | | 55 mm | 1 NC + 1 NO | MA | S1 | 911-.700-W0 | | 2 | 21 | 31 | 0.013 |
| | | | | M | S1 | 931-.700-W0 | | 2 | 21 | 25 | 0.013 |
| | | | 2 NC + 2 NO | MA | S1 | 912-.700-W0 | | 2 | 21 | 28 | 0.014 |
| | | | | M | S1 | 932-.700-W0 | | 2 | 21 | 22 | 0.014 |
| | | | 3 NC + 3 NO | MA | S1 | 913-.700-W0 | | 2 | 21 | 29 | 0.015 |
| | | | | M | S1 | 933-.700-W0 | | 2 | 21 | 23 | 0.015 |
| | | | 4 NC + 4 NO | MA | S1 | 914-.700-W0 | | 2 | 21 | 30 | 0.019 |
| | | | | M | S1 | 934-.700-W0 | | 2 | 21 | 24 | 0.019 |
| | | | 5 NC + 5 NO | MA | S1 | 915-.700-W0 | | 2 | 21 | 27 | 0.023 |
| | | | | M | S1 | 935-.700-W0 | | 2 | 21 | 21 | 0.023 |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)



Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

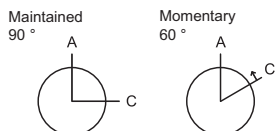
Selector switch actuator 2 positions 70 mm


Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \varnothing 18 x 24 mm | 24 mm dia. | 18 mm dia.



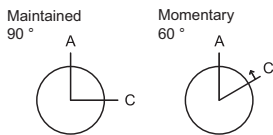
Essential Accessories:

-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | | Typ-Nr. | Component layout | | Technical drawing | Circuit drawing |  | |
|---|------------------|----------------|-------------|--------------------|--------------------|--------------------|---------------------|----|-------------------|-----------------|---|-------|
| | | | | Terminals | | | Mounting dimensions | | | | | |
| Selector switch actuator 2 positions 70 mm | IP 40 | 67 mm | 1 NC + 1 NO | MA | P | 811-.700-0P | 1 | 1 | 55 | 31 | 0.015 | |
| | | | | M | P | 831-.700-0P | 1 | 1 | 55 | 25 | 0.015 | |
| | | | 2 NC + 2 NO | MA | P | 812-.700-0P | 1 | 1 | 55 | 28 | 0.016 | |
| | | | | M | P | 832-.700-0P | 1 | 1 | 55 | 22 | 0.016 | |
| | | | 3 NC + 3 NO | MA | P | 813-.700-0P | 1 | 1 | 55 | 29 | 0.017 | |
| | | | | M | P | 833-.700-0P | 1 | 1 | 55 | 23 | 0.017 | |
| | | | 4 NC + 4 NO | MA | P | 814-.700-0P | 1 | 1 | 55 | 30 | 0.020 | |
| | | | | M | P | 834-.700-0P | 1 | 1 | 55 | 24 | 0.020 | |
| | | | 5 NC + 5 NO | MA | P | 815-.700-0P | 1 | 1 | 55 | 27 | 0.024 | |
| | | | | M | P | 835-.700-0P | 1 | 1 | 55 | 21 | 0.024 | |
| | | | 70 mm | 1 NC + 1 NO | MA | S1 | 811-.700-00 | | 1 | 54 | 31 | 0.015 |
| | | | | | M | S1 | 831-.700-00 | | 1 | 54 | 25 | 0.015 |
| | | | | 2 NC + 2 NO | MA | S1 | 812-.700-00 | | 1 | 54 | 28 | 0.016 |
| | | | | | M | S1 | 832-.700-00 | | 1 | 54 | 22 | 0.016 |
| | 3 NC + 3 NO | MA | | S1 | 813-.700-00 | | 1 | 54 | 29 | 0.017 | | |
| | | M | | S1 | 833-.700-00 | | 1 | 54 | 23 | 0.017 | | |
| | 4 NC + 4 NO | MA | S1 | 814-.700-00 | | 1 | 54 | 30 | 0.021 | | | |
| | | M | S1 | 834-.700-00 | | 1 | 54 | 24 | 0.021 | | | |
| | 5 NC + 5 NO | MA | S1 | 815-.700-00 | | 1 | 54 | 27 | 0.025 | | | |
| | | M | S1 | 835-.700-00 | | 1 | 54 | 21 | 0.025 | | | |

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Selector switch actuator 2 positions 70 mm | IP 65 | 67 mm | 1 NC + 1 NO | MA | P | 811-.700-WP | 1 | 2 | 55 | 31 | 0.015 |
| | | | | M | P | 831-.700-WP | 1 | 2 | 55 | 25 | 0.015 |
| | | | 2 NC + 2 NO | MA | P | 812-.700-WP | 1 | 2 | 55 | 28 | 0.016 |
| | | | | M | P | 832-.700-WP | 1 | 2 | 55 | 22 | 0.016 |
| | | | 3 NC + 3 NO | MA | P | 813-.700-WP | 1 | 2 | 55 | 29 | 0.017 |
| | | | | M | P | 833-.700-WP | 1 | 2 | 55 | 23 | 0.017 |
| | | | 4 NC + 4 NO | MA | P | 814-.700-WP | 1 | 2 | 55 | 30 | 0.020 |
| | | | | M | P | 834-.700-WP | 1 | 2 | 55 | 24 | 0.020 |
| | | | 5 NC + 5 NO | MA | P | 815-.700-WP | 1 | 2 | 55 | 27 | 0.024 |
| | | | | M | P | 835-.700-WP | 1 | 2 | 55 | 21 | 0.024 |
| | | 70 mm | 1 NC + 1 NO | MA | S1 | 811-.700-W0 | | 2 | 54 | 31 | 0.015 |
| | | | | M | S1 | 831-.700-W0 | | 2 | 54 | 25 | 0.015 |
| | | | 2 NC + 2 NO | MA | S1 | 812-.700-W0 | | 2 | 54 | 28 | 0.016 |
| | | | | M | S1 | 832-.700-W0 | | 2 | 54 | 22 | 0.016 |
| | | | 3 NC + 3 NO | MA | S1 | 813-.700-W0 | | 2 | 54 | 29 | 0.017 |
| | | | | M | S1 | 833-.700-W0 | | 2 | 54 | 23 | 0.017 |
| | | | 4 NC + 4 NO | MA | S1 | 814-.700-W0 | | 2 | 54 | 30 | 0.021 |
| | | | | M | S1 | 834-.700-W0 | | 2 | 54 | 24 | 0.021 |
| | | | 5 NC + 5 NO | MA | S1 | 815-.700-W0 | | 2 | 54 | 27 | 0.025 |
| | | | | M | S1 | 835-.700-W0 | | 2 | 54 | 21 | 0.025 |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)



Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

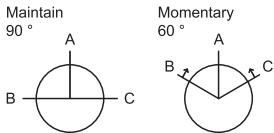
Selector switch actuator 3 positions 45 mm

Actuators usable for front dimensions: \square 24 x 24 mm | \square 18 x 18 mm | \square 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

-  Front bezel for Keylock switch and Selector switch 3 positions page 59
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Selector switch actuator 3 positions 45 mm | IP 40 | 42 mm | 2 NC + 2 NO | 0-MA-MA | P | 722-.700-0P | 1 | 1 | 30 | 19 | 0.012 |
| | | | | MA-0-MA | P | 712-.700-0P | 1 | 1 | 30 | 19 | 0.012 |
| | | | | MA-0-M | P | 742-.700-0P | 1 | 1 | 30 | 18 | 0.012 |
| | | | | M-0-MA | P | 752-.700-0P | 1 | 1 | 30 | 17 | 0.012 |
| | | | | M-0-M | P | 732-.700-0P | 1 | 1 | 30 | 16 | 0.012 |
| | | 45 mm | 2 NC + 2 NO | 0-MA-MA | S1 | 722-.700-00 | | 1 | 23 | 19 | 0.012 |
| | | | | MA-0-MA | S1 | 712-.700-00 | | 1 | 23 | 19 | 0.012 |
| | | | | MA-0-M | S1 | 742-.700-00 | | 1 | 23 | 18 | 0.012 |
| | | | | M-0-MA | S1 | 752-.700-00 | | 1 | 23 | 17 | 0.012 |
| | | | | M-0-M | S1 | 732-.700-00 | | 1 | 23 | 16 | 0.012 |
| | IP 65 | 42 mm | 2 NC + 2 NO | 0-MA-MA | P | 722-.700-WP | 1 | 2 | 30 | 19 | 0.012 |
| | | | | MA-0-MA | P | 712-.700-WP | 1 | 2 | 30 | 19 | 0.012 |
| | | | | MA-0-M | P | 742-.700-WP | 1 | 2 | 30 | 18 | 0.012 |
| | | | | M-0-MA | P | 752-.700-WP | 1 | 2 | 30 | 17 | 0.012 |
| | | | | M-0-M | P | 732-.700-WP | 1 | 2 | 30 | 16 | 0.012 |
| | | 45 mm | 2 NC + 2 NO | 0-MA-MA | S1 | 722-.700-W0 | | 2 | 23 | 19 | 0.012 |
| | | | | MA-0-MA | S1 | 712-.700-W0 | | 2 | 23 | 19 | 0.012 |
| | | | | MA-0-M | S1 | 742-.700-W0 | | 2 | 23 | 18 | 0.012 |
| | | | | M-0-MA | S1 | 752-.700-W0 | | 2 | 23 | 17 | 0.012 |
| | | | | M-0-M | S1 | 732-.700-W0 | | 2 | 23 | 16 | 0.012 |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action



Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)


Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated push-pull pushbutton actuator 45 mm



Essential Accessories:

-  Push-pull knob page 61
-  Single-LED page 70

| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Front bezel | Ø 18 mm Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing |  |
|--|------------------|----------------|-------------|------------------|-----------|---------------|--------------------|------------------|---------------------|-------------------|-----------------|---|
| Illuminated push-pull pushbutton actuator 45 mm Lampholder T1 ³ / ₄ MG | IP 40 | 51 mm | 2 NC + 2 NO | M-0-M | P | Plastic black | 792-2000-0P | 1 | 13 | 32 | 59 | 0.015 |
| | | | | | | Plastic grey | 792-1000-0P | 1 | 13 | 32 | 59 | 0.015 |
| | | 54 mm | 2 NC + 2 NO | M-0-M | S1 | Plastic black | 792-2000-00 | | 13 | 25 | 59 | 0.015 |
| | | | | | | Plastic grey | 792-1000-00 | | 13 | 25 | 59 | 0.015 |

Contacts: NC = Normally closed, NO = Normally open

Switching action: M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7

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

Actuators usable for front dimensions: □ 24 x 24 mm | □ 18 x 18 mm | □ 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

- ☞ Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
- ☞ Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
- ☞ Single-LED page 70

| | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 Lampholder T1 3/4 MG | 52 mm | 1 NC + 1 NO | M | P | 981-.000-0P | 1 | 7 8 | 60 | 0.013 | (E-3) |
| | | 2 NC + 2 NO | M | P | 982-.000-0P | 1 | 7 8 | 61 | 0.014 | |
| | | 3 NC + 3 NO | M | P | 983-.000-0P | 1 | 7 8 | 62 | 0.014 | |
| | | 4 NC + 4 NO | M | P | 984-.000-0P | 1 | 7 8 | 63 | 0.018 | |
| | | 5 NC + 5 NO | M | P | 985-.000-0P | 1 | 7 8 | 64 | 0.021 | |
| | 55 mm | 1 NC + 1 NO | M | S1 | 981-.000-00 | | 7 4 | 60 | 0.013 | |
| | | 2 NC + 2 NO | M | S1 | 982-.000-00 | | 7 4 | 61 | 0.014 | |
| | | 3 NC + 3 NO | M | S1 | 983-.000-00 | | 7 4 | 62 | 0.015 | |
| | | 4 NC + 4 NO | M | S1 | 984-.000-00 | | 7 4 | 63 | 0.019 | |
| | | 5 NC + 5 NO | M | S1 | 985-.000-00 | | 7 4 | 64 | 0.022 | |
| Lampholder T5.5 | 67 mm | 1 NC + 1 NO | M | P | 881-.000-0P | 1 | 7 12 | 60 | 0.015 | |
| | | 2 NC + 2 NO | M | P | 882-.000-0P | 1 | 7 12 | 61 | 0.016 | |
| | | 3 NC + 3 NO | M | P | 883-.000-0P | 1 | 7 12 | 62 | 0.017 | |
| | | 4 NC + 4 NO | M | P | 884-.000-0P | 1 | 7 12 | 63 | 0.020 | |
| | | 5 NC + 5 NO | M | P | 885-.000-0P | 1 | 7 12 | 64 | 0.023 | |
| | 70 mm | 1 NC + 1 NO | M | S1 | 881-.000-00 | | 7 11 | 60 | 0.015 | |
| | | 2 NC + 2 NO | M | S1 | 882-.000-00 | | 7 11 | 61 | 0.016 | |
| | | 3 NC + 3 NO | M | S1 | 883-.000-00 | | 7 11 | 62 | 0.017 | |
| | | 4 NC + 4 NO | M | S1 | 884-.000-00 | | 7 11 | 63 | 0.021 | |
| | | 5 NC + 5 NO | M | S1 | 885-.000-00 | | 7 11 | 64 | 0.024 | |

Functions see part 'Switch interlock system'

Contacts: NC = Normally closed, NO = Normally open

Switching action: M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2

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

Actuators usable for front dimensions: □ 24 x 24 mm | □ 18 x 18 mm | □ 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

- 🛒 Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
- 🛒 Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
- 🛒 Single-LED page 70

| | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 Lampholder T1 ³ / ₄ MG | 52 mm | 1 NC + 1 NO | R (Ir) | P | 901-.000-0P | 1 | 7 | 8 | 14 | 0.013 |
| | | 2 NC + 2 NO | R (Ir) | P | 902-.000-0P | 1 | 7 | 8 | 8 | 0.014 |
| | | 3 NC + 3 NO | R (Ir) | P | 903-.000-0P | 1 | 7 | 8 | 12 | 0.014 |
| | | 4 NC + 4 NO | R (Ir) | P | 904-.000-0P | 1 | 7 | 8 | 11 | 0.018 |
| | | 5 NC + 5 NO | R (Ir) | P | 905-.000-0P | 1 | 7 | 8 | 6 | 0.021 |
| | 55 mm | 1 NC + 1 NO | R (Ir) | S1 | 901-.000-00 | | 7 | 4 | 14 | 0.013 |
| | | 2 NC + 2 NO | R (Ir) | S1 | 902-.000-00 | | 7 | 4 | 8 | 0.014 |
| | | 3 NC + 3 NO | R (Ir) | S1 | 903-.000-00 | | 7 | 4 | 12 | 0.015 |
| | | 4 NC + 4 NO | R (Ir) | S1 | 904-.000-00 | | 7 | 4 | 11 | 0.019 |
| | | 5 NC + 5 NO | R (Ir) | S1 | 905-.000-00 | | 7 | 4 | 6 | 0.022 |
| Lampholder T5.5 | 67 mm | 1 NC + 1 NO | R (Ir) | P | 801-.000-0P | 1 | 7 | 12 | 14 | 0.015 |
| | | 2 NC + 2 NO | R (Ir) | P | 802-.000-0P | 1 | 7 | 12 | 8 | 0.016 |
| | | 3 NC + 3 NO | R (Ir) | P | 803-.000-0P | 1 | 7 | 12 | 12 | 0.017 |
| | | 4 NC + 4 NO | R (Ir) | P | 804-.000-0P | 1 | 7 | 12 | 11 | 0.020 |
| | | 5 NC + 5 NO | R (Ir) | P | 805-.000-0P | 1 | 7 | 12 | 6 | 0.023 |
| | 70 mm | 1 NC + 1 NO | R (Ir) | S1 | 801-.000-00 | | 7 | 11 | 14 | 0.015 |
| | | 2 NC + 2 NO | R (Ir) | S1 | 802-.000-00 | | 7 | 11 | 8 | 0.016 |
| | | 3 NC + 3 NO | R (Ir) | S1 | 803-.000-00 | | 7 | 11 | 12 | 0.017 |
| | | 4 NC + 4 NO | R (Ir) | S1 | 804-.000-00 | | 7 | 11 | 11 | 0.021 |
| | | 5 NC + 5 NO | R (Ir) | S1 | 805-.000-00 | | 7 | 11 | 6 | 0.024 |

Functions see part 'Switch interlock system'

Contacts: NC = Normally closed, NO = Normally open

Switching action: R (Ir) = Maintained action (switchable to momentary action)

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7

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

Actuators usable for front dimensions: □ 24 x 24 mm | □ 18 x 18 mm | □ 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

- ☞ Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
- ☞ Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
- ☞ Single-LED page 70

| | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | | Technical drawing | Circuit drawing | E2 |
|--|----------------|-------------|--------------------|--------------------|--------------------|---------------------|-------|-------------------|-----------------|-------|
| | | | | | | Mounting dimensions | | | | |
| Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 Lampholder T1 3/4 MG | 52 mm | 0 NC + 0 NO | M | P | 940-.000-0P | 1 | 7 8 | | | 0.012 |
| | | 1 NC + 1 NO | M | P | 941-.000-0P | 1 | 7 8 | 60 | 0.013 | |
| | | 2 NC + 2 NO | M | P | 942-.000-0P | 1 | 7 8 | 61 | 0.014 | |
| | | 3 NC + 3 NO | M | P | 943-.000-0P | 1 | 7 8 | 62 | 0.014 | |
| | | 4 NC + 4 NO | M | P | 944-.000-0P | 1 | 7 8 | 63 | 0.018 | |
| | 5 NC + 5 NO | M | P | 945-.000-0P | 1 | 7 8 | 64 | 0.021 | | |
| | 55 mm | 0 NC + 0 NO | M | S1 | 940-.000-00 | | 7 4 | | | 0.012 |
| | | 1 NC + 1 NO | M | S1 | 941-.000-00 | | 7 4 | 60 | 0.013 | |
| | | 2 NC + 2 NO | M | S1 | 942-.000-00 | | 7 4 | 61 | 0.014 | |
| | | 3 NC + 3 NO | M | S1 | 943-.000-00 | | 7 4 | 62 | 0.015 | |
| 4 NC + 4 NO | | M | S1 | 944-.000-00 | | 7 4 | 63 | 0.019 | | |
| 5 NC + 5 NO | M | S1 | 945-.000-00 | | 7 4 | 64 | 0.022 | | | |
| Lampholder T5.5 | 67 mm | 0 NC + 0 NO | M | P | 840-.000-0P | 1 | 7 12 | | | 0.014 |
| | | 1 NC + 1 NO | M | P | 841-.000-0P | 1 | 7 12 | 60 | 0.015 | |
| | | 2 NC + 2 NO | M | P | 842-.000-0P | 1 | 7 12 | 61 | 0.016 | |
| | | 3 NC + 3 NO | M | P | 843-.000-0P | 1 | 7 12 | 62 | 0.017 | |
| | | 4 NC + 4 NO | M | P | 844-.000-0P | 1 | 7 12 | 63 | 0.020 | |
| | 5 NC + 5 NO | M | P | 845-.000-0P | 1 | 7 12 | 64 | 0.023 | | |
| | 70 mm | 0 NC + 0 NO | M | S1 | 840-.000-00 | | 7 11 | | | 0.014 |
| | | 1 NC + 1 NO | M | S1 | 841-.000-00 | | 7 11 | 60 | 0.015 | |
| | | 2 NC + 2 NO | M | S1 | 842-.000-00 | | 7 11 | 61 | 0.016 | |
| | | 3 NC + 3 NO | M | S1 | 843-.000-00 | | 7 11 | 62 | 0.017 | |
| 4 NC + 4 NO | | M | S1 | 844-.000-00 | | 7 11 | 63 | 0.021 | | |
| 5 NC + 5 NO | M | S1 | 845-.000-00 | | 7 11 | 64 | 0.024 | | | |

Functions see part 'Switch interlock system'

Contacts: NC = Normally closed, NO = Normally open

Switching action: M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

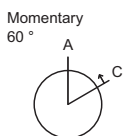
Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \varnothing 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 2 positions page 58



| | Front protection | Mounting depth | Contacts | Terminals | Switching action | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|-------------|-----------|------------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| | | | | | | | | | | | | |
| Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 Standard lock B2 300 | IP 40 | 52 mm | 1 NC + 1 NO | P | M | A | 931-.401-0P | 1 | 9 | 27 | 46 | 0.024 |
| | | | 2 NC + 2 NO | P | M | A | 932-.401-0P | 1 | 9 | 27 | 43 | 0.025 |
| | | | 3 NC + 3 NO | P | M | A | 933-.401-0P | 1 | 9 | 27 | 44 | 0.026 |
| | | | 4 NC + 4 NO | P | M | A | 934-.401-0P | 1 | 9 | 27 | 45 | 0.029 |
| | | | 5 NC + 5 NO | P | M | A | 935-.401-0P | 1 | 9 | 27 | 42 | 0.032 |
| | | 55 mm | 1 NC + 1 NO | S1 | M | A | 931-.401-00 | | 9 | 20 | 46 | 0.024 |
| | | | 2 NC + 2 NO | S1 | M | A | 932-.401-00 | | 9 | 20 | 43 | 0.025 |
| | | | 3 NC + 3 NO | S1 | M | A | 933-.401-00 | | 9 | 20 | 44 | 0.027 |
| | | | 4 NC + 4 NO | S1 | M | A | 934-.401-00 | | 9 | 20 | 45 | 0.030 |
| | | | 5 NC + 5 NO | S1 | M | A | 935-.401-00 | | 9 | 20 | 42 | 0.033 |
| | | 67 mm | 1 NC + 1 NO | P | M | A | 831-.401-0P | 1 | 9 | 53 | 46 | 0.026 |
| | | | 2 NC + 2 NO | P | M | A | 832-.401-0P | 1 | 9 | 53 | 43 | 0.027 |
| | | | 3 NC + 3 NO | P | M | A | 833-.401-0P | 1 | 9 | 53 | 44 | 0.028 |
| | | | 4 NC + 4 NO | P | M | A | 834-.401-0P | 1 | 9 | 53 | 45 | 0.031 |
| | | | 5 NC + 5 NO | P | M | A | 835-.401-0P | 1 | 9 | 53 | 42 | 0.034 |
| | | 70 mm | 1 NC + 1 NO | S1 | M | A | 831-.401-00 | | 9 | 52 | 46 | 0.026 |
| | | | 2 NC + 2 NO | S1 | M | A | 832-.401-00 | | 9 | 52 | 43 | 0.027 |
| | | | 3 NC + 3 NO | S1 | M | A | 833-.401-00 | | 9 | 52 | 44 | 0.029 |
| | | | 4 NC + 4 NO | S1 | M | A | 834-.401-00 | | 9 | 52 | 45 | 0.032 |
| | | | 5 NC + 5 NO | S1 | M | A | 835-.401-00 | | 9 | 52 | 42 | 0.035 |
| IP 65 | 52 mm | 1 NC + 1 NO | P | M | A | 931-.401-WP | 1 | 10 | 27 | 46 | 0.024 | |
| | | 2 NC + 2 NO | P | M | A | 932-.401-WP | 1 | 10 | 27 | 43 | 0.025 | |
| | | 3 NC + 3 NO | P | M | A | 933-.401-WP | 1 | 10 | 27 | 44 | 0.026 | |
| | | 4 NC + 4 NO | P | M | A | 934-.401-WP | 1 | 10 | 27 | 45 | 0.029 | |
| | | 5 NC + 5 NO | P | M | A | 935-.401-WP | 1 | 10 | 27 | 42 | 0.032 | |
| | 55 mm | 1 NC + 1 NO | S1 | M | A | 931-.401-W0 | | 10 | 20 | 46 | 0.024 | |
| | | 2 NC + 2 NO | S1 | M | A | 932-.401-W0 | | 10 | 20 | 43 | 0.025 | |
| | | 3 NC + 3 NO | S1 | M | A | 933-.401-W0 | | 10 | 20 | 44 | 0.027 | |
| | | 4 NC + 4 NO | S1 | M | A | 934-.401-W0 | | 10 | 20 | 45 | 0.030 | |
| | | 5 NC + 5 NO | S1 | M | A | 935-.401-W0 | | 10 | 20 | 42 | 0.033 | |
| | 67 mm | 1 NC + 1 NO | P | M | A | 831-.401-WP | 1 | 10 | 53 | 46 | 0.026 | |
| | | 2 NC + 2 NO | P | M | A | 832-.401-WP | 1 | 10 | 53 | 43 | 0.027 | |
| | | 3 NC + 3 NO | P | M | A | 833-.401-WP | 1 | 10 | 53 | 44 | 0.028 | |
| | | 4 NC + 4 NO | P | M | A | 834-.401-WP | 1 | 10 | 53 | 45 | 0.031 | |
| | | 5 NC + 5 NO | P | M | A | 835-.401-WP | 1 | 10 | 53 | 42 | 0.034 | |
| | 70 mm | 1 NC + 1 NO | S1 | M | A | 831-.401-W0 | | 10 | 52 | 46 | 0.026 | |
| | | 2 NC + 2 NO | S1 | M | A | 832-.401-W0 | | 10 | 52 | 43 | 0.027 | |
| | | 3 NC + 3 NO | S1 | M | A | 833-.401-W0 | | 10 | 52 | 44 | 0.029 | |
| | | 4 NC + 4 NO | S1 | M | A | 834-.401-W0 | | 10 | 52 | 45 | 0.032 | |
| | | 5 NC + 5 NO | S1 | M | A | 835-.401-W0 | | 10 | 52 | 42 | 0.035 | |

Continuation see next page

Continued from previous page

Other key remove and key lock number 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

Functions see part 'Switch interlock system'

Contacts: NC = Normally closed, NO = Normally open

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Switching action: M = Momentary action

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

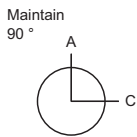
Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \varnothing 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 2 positions page 58



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-------------|-------------|-------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 Standard lock B2 300 | IP 40 | 52 mm | 1 NC + 1 NO | MA | P | A | 921-.401-0P | 1 | 9 | 27 | 52 | 0.024 |
| | | | | | | | C + A | 911-.401-0P | 1 | 9 | 27 | 52 |
| | | | 2 NC + 2 NO | MA | P | A | 922-.401-0P | 1 | 9 | 27 | 49 | 0.025 |
| | | | | | | | C + A | 912-.401-0P | 1 | 9 | 27 | 49 |
| | | | 3 NC + 3 NO | MA | P | A | 923-.401-0P | 1 | 9 | 27 | 50 | 0.026 |
| | | | | | | | C + A | 913-.401-0P | 1 | 9 | 27 | 50 |
| | | | 4 NC + 4 NO | MA | P | A | 924-.401-0P | 1 | 9 | 27 | 51 | 0.029 |
| | | | | | | | C + A | 914-.401-0P | 1 | 9 | 27 | 51 |
| | | | 5 NC + 5 NO | MA | P | A | 925-.401-0P | 1 | 9 | 27 | 48 | 0.032 |
| | | | | | | | C + A | 915-.401-0P | 1 | 9 | 27 | 48 |
| | | 55 mm | 1 NC + 1 NO | MA | S1 | A | 921-.401-00 | | 9 | 20 | 52 | 0.024 |
| | | | | | | | C + A | 911-.401-00 | | 9 | 20 | 52 |
| | | | 2 NC + 2 NO | MA | S1 | A | 922-.401-00 | | 9 | 20 | 49 | 0.025 |
| | | | | | | | C + A | 912-.401-00 | | 9 | 20 | 49 |
| | | | 3 NC + 3 NO | MA | S1 | A | 923-.401-00 | | 9 | 20 | 50 | 0.027 |
| | C + A | | | | | | 913-.401-00 | | 9 | 20 | 50 | 0.027 |
| | 4 NC + 4 NO | | MA | S1 | A | 924-.401-00 | | 9 | 20 | 51 | 0.030 | |
| | | | | | | C + A | 914-.401-00 | | 9 | 20 | 51 | 0.030 |
| | 5 NC + 5 NO | | MA | S1 | A | 925-.401-00 | | 9 | 20 | 48 | 0.033 | |
| | | | | | | C + A | 915-.401-00 | | 9 | 20 | 48 | 0.033 |
| | IP 65 | 52 mm | 1 NC + 1 NO | MA | P | A | 921-.401-WP | 1 | 10 | 27 | 52 | 0.024 |
| | | | | | | | C + A | 911-.401-WP | 1 | 10 | 27 | 52 |
| | | | 2 NC + 2 NO | MA | P | A | 922-.401-WP | 1 | 10 | 27 | 49 | 0.025 |
| | | | | | | | C + A | 912-.401-WP | 1 | 10 | 27 | 49 |
| | | | 3 NC + 3 NO | MA | P | A | 923-.401-WP | 1 | 10 | 27 | 50 | 0.026 |
| | | | | | | | C + A | 913-.401-WP | 1 | 10 | 27 | 50 |
| | | | 4 NC + 4 NO | MA | P | A | 924-.401-WP | 1 | 10 | 27 | 51 | 0.029 |
| | | | | | | | C + A | 914-.401-WP | 1 | 10 | 27 | 51 |
| | | | 5 NC + 5 NO | MA | P | A | 925-.401-WP | 1 | 10 | 27 | 48 | 0.032 |
| | | | | | | | C + A | 915-.401-WP | 1 | 10 | 27 | 48 |
| 55 mm | | 1 NC + 1 NO | MA | S1 | A | 921-.401-W0 | | 10 | 20 | 52 | 0.024 | |
| | | | | | | C + A | 911-.401-W0 | | 10 | 20 | 52 | 0.024 |
| | | 2 NC + 2 NO | MA | S1 | A | 922-.401-W0 | | 10 | 20 | 49 | 0.025 | |
| | | | | | | C + A | 912-.401-W0 | | 10 | 20 | 49 | 0.025 |
| | | 3 NC + 3 NO | MA | S1 | A | 923-.401-W0 | | 10 | 20 | 50 | 0.027 | |
| | C + A | | | | | 913-.401-W0 | | 10 | 20 | 50 | 0.027 | |
| | 4 NC + 4 NO | MA | S1 | A | 924-.401-W0 | | 10 | 20 | 51 | 0.030 | | |
| | | | | | C + A | 914-.401-W0 | | 10 | 20 | 51 | 0.030 | |
| | 5 NC + 5 NO | MA | S1 | A | 925-.401-W0 | | 10 | 20 | 48 | 0.033 | | |
| | | | | | C + A | 915-.401-W0 | | 10 | 20 | 48 | 0.033 | |

Continuation see next page

Continued from previous page

Other key remove and key lock number 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

Functions see part 'Switch interlock system'

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3

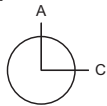
Actuators usable for front dimensions: \varnothing 24 x 24 mm | \varnothing 18 x 18 mm | \varnothing 18 x 24 mm | 24 mm dia. | 18 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 2 positions page 58

Maintain
90°



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-------------|-------------|-------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 Standard lock B2 300 | IP 40 | 67 mm | 1 NC + 1 NO | MA | P | A | 821-.401-0P | 1 | 9 | 53 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-0P | 1 | 9 | 53 | 52 |
| | | | 2 NC + 2 NO | MA | P | A | 822-.401-0P | 1 | 9 | 53 | 49 | 0.027 |
| | | | | | | | C + A | 812-.401-0P | 1 | 9 | 53 | 49 |
| | | | 3 NC + 3 NO | MA | P | A | 823-.401-0P | 1 | 9 | 53 | 50 | 0.028 |
| | | | | | | | C + A | 813-.401-0P | 1 | 9 | 53 | 50 |
| | | | 4 NC + 4 NO | MA | P | A | 824-.401-0P | 1 | 9 | 53 | 51 | 0.031 |
| | | | | | | | C + A | 814-.401-0P | 1 | 9 | 53 | 51 |
| | | | 5 NC + 5 NO | MA | P | A | 825-.401-0P | 1 | 9 | 53 | 48 | 0.034 |
| | | | | | | | C + A | 815-.401-0P | 1 | 9 | 53 | 48 |
| | | 70 mm | 1 NC + 1 NO | MA | S1 | A | 821-.401-00 | | 9 | 52 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-00 | | 9 | 52 | 52 |
| | | | 2 NC + 2 NO | MA | S1 | A | 822-.401-00 | | 9 | 52 | 49 | 0.027 |
| | | | | | | | C + A | 812-.401-00 | | 9 | 52 | 49 |
| | | | 3 NC + 3 NO | MA | S1 | A | 823-.401-00 | | 9 | 52 | 50 | 0.029 |
| | C + A | | | | | | 813-.401-00 | | 9 | 52 | 50 | 0.029 |
| | 4 NC + 4 NO | | MA | S1 | A | 824-.401-00 | | 9 | 52 | 51 | 0.032 | |
| | | | | | | C + A | 814-.401-00 | | 9 | 52 | 51 | 0.032 |
| | 5 NC + 5 NO | | MA | S1 | A | 825-.401-00 | | 9 | 52 | 48 | 0.035 | |
| | | | | | | C + A | 815-.401-00 | | 9 | 52 | 48 | 0.035 |
| | IP 65 | 67 mm | 1 NC + 1 NO | MA | P | A | 821-.401-WP | 1 | 10 | 53 | 52 | 0.026 |
| | | | | | | | C + A | 811-.401-WP | 1 | 10 | 53 | 52 |
| | | | 2 NC + 2 NO | MA | P | A | 822-.401-WP | 1 | 10 | 53 | 49 | 0.027 |
| | | | | | | | C + A | 812-.401-WP | 1 | 10 | 53 | 49 |
| | | | 3 NC + 3 NO | MA | P | A | 823-.401-WP | 1 | 10 | 53 | 50 | 0.028 |
| | | | | | | | C + A | 813-.401-WP | 1 | 10 | 53 | 50 |
| | | | 4 NC + 4 NO | MA | P | A | 824-.401-WP | 1 | 10 | 53 | 51 | 0.031 |
| | | | | | | | C + A | 814-.401-WP | 1 | 10 | 53 | 51 |
| | | | 5 NC + 5 NO | MA | P | A | 825-.401-WP | 1 | 10 | 53 | 48 | 0.034 |
| | | | | | | | C + A | 815-.401-WP | 1 | 10 | 53 | 48 |
| 70 mm | | 1 NC + 1 NO | MA | S1 | A | 821-.401-W0 | | 10 | 52 | 52 | 0.026 | |
| | | | | | | C + A | 811-.401-W0 | | 10 | 52 | 52 | 0.026 |
| | | 2 NC + 2 NO | MA | S1 | A | 822-.401-W0 | | 10 | 52 | 49 | 0.027 | |
| | | | | | | C + A | 812-.401-W0 | | 10 | 52 | 49 | 0.027 |
| | | 3 NC + 3 NO | MA | S1 | A | 823-.401-W0 | | 10 | 52 | 50 | 0.029 | |
| | C + A | | | | | 813-.401-W0 | | 10 | 52 | 50 | 0.029 | |
| | 4 NC + 4 NO | MA | S1 | A | 824-.401-W0 | | 10 | 52 | 51 | 0.032 | | |
| | | | | | C + A | 814-.401-W0 | | 10 | 52 | 51 | 0.032 | |
| | 5 NC + 5 NO | MA | S1 | A | 825-.401-W0 | | 10 | 52 | 48 | 0.035 | | |
| | | | | | C + A | 815-.401-W0 | | 10 | 52 | 48 | 0.035 | |

Continuation see next page

Continued from previous page

Other key remove and key lock number 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

Functions see part 'Switch interlock system'

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Indicator actuator 35 mm, flush mounting



Essential Accessories:

- Front bezel set, flush mounting page 62
- Lamp element block for 35 mm page 66
- Lens plastic for button 35 mm page 54
- Single-LED page 70

| | Front protection | Typ-Nr. | Typ-Nr. | Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|-----------------------------|-----------------------------|------------------------|---------------------|-------------------|-----------------|-------|
| Indicator actuator 35 mm, flush mounting Lampholder T1 3/4 MG | IP 40 | Ø 24 x 24 mm 690-4000-00 | Ø 24 x 30 mm 690-6000-00 | Ø 25 mm 690-2000-00 | 4 | 41 | 2 | 0.004 |
| | IP 65 | 690-4000-W0 | 690-6000-W0 | 690-2000-W0 | 4 | 41 | 2 | 0.005 |

Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Indicator actuator 30 - 70 mm, flush mounting

Actuators usable for front dimensions: Ø 24 x 24 mm | Ø 24 x 30 mm | 25 mm dia.



Essential Accessories:

- Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
- Front bezel set, flush mounting page 62
- Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
- Single-LED page 70

| | Mounting depth | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|----------------|-----------|-------------|------------------|---------------------|-------------------|-----------------|-------|
| Indicator actuator 30 - 70 mm, flush mounting Lampholder T1 3/4 MG | 39 mm | S1 | 990-.000-K0 | 4 | 46 | 2 | 0.004 | |
| | 61 mm | P | 990-.000-0P | 1 | 4 | 48 | 2 | 0.007 |
| | 64 mm | S1 | 990-.000-00 | 4 | 47 | 2 | 0.007 | |
| Lampholder T5.5 | 54 mm | S1 | 890-.000-K0 | 4 | 49 | 2 | 0.006 | |
| | 76 mm | P | 890-.000-0P | 1 | 4 | 51 | 2 | 0.010 |
| | 79 mm | S1 | 890-.000-00 | 4 | 50 | 2 | 0.010 | |




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
Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm), P = PCB terminal


Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Buzzer actuator 30 - 55 mm, flush mounting



Essential Accessories:

-  Buzzer element page 60
-  Front bezel for Buzzer for 30- 55 mm page 62
-  Front bezel set Buzzer, flush mounting page 62

| | Front protection | Mounting depth | Terminals | □ 24 x 30 mm Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing |  |
|--|------------------|----------------|-----------|-------------------------|---------------------|-------------------|-----------------|---|
| Buzzer actuator 30 - 55 mm, flush mounting Buzzer socket T1 ³ / ₄ MG | IP 40 | 39 mm | S1 | 970-000-K0 | 12 | 46 | 1 | 0.004 |
| | | 61 mm | P | 970-000-0P | 12 | 48 | 1 | 0.007 |
| | | 64 mm | S1 | 970-000-00 | 12 | 47 | 1 | 0.007 |

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




Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm), P = PCB terminal


Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated pushbutton actuator 35 mm, flush mounting



Essential Accessories:

-  Lens plastic for button 35 mm page 54
-  Single-LED page 70
-  Snap-action switching element block for 35 mm page 66

| | Front protection | Switching action | □ 24 x 24 mm Typ-Nr. | □ 24 x 30 mm Typ-Nr. | Ø 25 mm Typ-Nr. | Mounting dimensions | Technical drawing | Circuit drawing |  |
|--|------------------|------------------|-------------------------|-------------------------|--------------------|---------------------|-------------------|-----------------|---|
| Illuminated pushbutton actuator 35 mm, flush mounting Lampholder T1 ³ / ₄ MG | IP 40 | R (Ir) | 600-4000-00 | 600-6000-00 | 600-2000-00 | 4 | 41 | 15 | 0.004 |
| | | M | 680-4000-00 | 680-6000-00 | 680-2000-00 | 4 | 41 | 32 | 0.004 |
| | IP 65 | R (Ir) | 600-4000-W0 | 680-6000-W0 | 600-2000-W0 | 4 | 41 | 15 | 0.005 |
| | | M | 680-4000-W0 | 680-6000-W0 | 680-2000-W0 | 4 | 41 | 32 | 0.005 |

Switching action: R (Ir) = Maintained action (switchable to momentary action), M = Momentary action





Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Illuminated pushbutton actuator 55 - 70 mm, flush mounting

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

-  Front bezel for buttons 30 - 70 mm and 55 - 70 mm page 61
-  Front bezel set, flush mounting page 62
-  Lens plastic for buttons 30 - 70 mm and 55 - 70 mm page 55
-  Single-LED page 70

| | Front protection | Mounting depth | Switching action | Contacts | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|------------------|-------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Illuminated pushbutton actuator 55 - 70 mm, flush mounting Lampholder T1 $\frac{3}{4}$ MG | IP 40 | 61 mm | R (Ir) | 1 NC + 1 NO | P | 901-.000-0P | 1 | 4 | 43 | 14 | 0.013 |
| | | | | 2 NC + 2 NO | P | 902-.000-0P | 1 | 4 | 43 | 8 | 0.014 |
| | | | | 3 NC + 3 NO | P | 903-.000-0P | 1 | 4 | 43 | 12 | 0.014 |
| | | | | 4 NC + 4 NO | P | 904-.000-0P | 1 | 4 | 43 | 11 | 0.018 |
| | | | | 5 NC + 5 NO | P | 905-.000-0P | 1 | 4 | 43 | 6 | 0.021 |
| | 64 mm | R (Ir) | 1 NC + 1 NO | S1 | 901-.000-00 | | 4 | 42 | 14 | 0.013 | |
| | | | 2 NC + 2 NO | S1 | 902-.000-00 | | 4 | 42 | 8 | 0.014 | |
| | | | 3 NC + 3 NO | S1 | 903-.000-00 | | 4 | 42 | 12 | 0.015 | |
| | | | 4 NC + 4 NO | S1 | 904-.000-00 | | 4 | 42 | 11 | 0.019 | |
| | | | 5 NC + 5 NO | S1 | 905-.000-00 | | 4 | 42 | 6 | 0.022 | |
| Lampholder T5.5 | IP 40 | 76 mm | R (Ir) | 1 NC + 1 NO | P | 801-.000-0P | 1 | 4 | 45 | 14 | 0.015 |
| | | | | 2 NC + 2 NO | P | 802-.000-0P | 1 | 4 | 45 | 8 | 0.016 |
| | | | | 3 NC + 3 NO | P | 803-.000-0P | 1 | 4 | 45 | 12 | 0.017 |
| | | | | 4 NC + 4 NO | P | 804-.000-0P | 1 | 4 | 45 | 11 | 0.020 |
| | | | | 5 NC + 5 NO | P | 805-.000-0P | 1 | 4 | 45 | 6 | 0.023 |
| | 79 mm | R (Ir) | 1 NC + 1 NO | S1 | 801-.000-00 | | 4 | 44 | 14 | 0.015 | |
| | | | 2 NC + 2 NO | S1 | 802-.000-00 | | 4 | 44 | 8 | 0.016 | |
| | | | 3 NC + 3 NO | S1 | 803-.000-00 | | 4 | 44 | 12 | 0.017 | |
| | | | 4 NC + 4 NO | S1 | 804-.000-00 | | 4 | 44 | 11 | 0.021 | |
| | | | 5 NC + 5 NO | S1 | 805-.000-00 | | 4 | 44 | 6 | 0.024 | |

Switching action: R (Ir) = Maintained action (switchable to momentary action)

Contacts: NC = Normally closed, NO = Normally open

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Keylock switch actuator 2 positions 45 mm, flush mounting

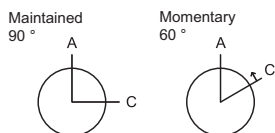
Actuators usable for front dimensions: \square 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 2 positions page 58

Front bezel set, flush mounting page 62



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | | |
|--|------------------|----------------|-------------|------------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|-------|-------|
| Keylock switch actuator 2 positions 45 mm, flush mounting Standard lock B2 300 | IP 40 | 51 mm | 1 NC + 1 NO | MA | P | A | 771-.401-0P | 1 | 4 | 57 | 47 | 0.022 | |
| | | | | | | C + A | 761-.401-0P | 1 | 4 | 57 | 47 | 0.022 | |
| | | | M | P | A | 781-.401-0P | 1 | 4 | 57 | 41 | 0.022 | | |
| | | | | | C + A | 762-.401-0P | 1 | 4 | 57 | 49 | 0.023 | | |
| | | | | 2 NC + 2 NO | MA | P | A | 772-.401-0P | 1 | 4 | 57 | 49 | 0.023 |
| | | | | | | | C + A | 762-.401-0P | 1 | 4 | 57 | 49 | 0.023 |
| | | | | | M | P | A | 782-.401-0P | 1 | 4 | 57 | 43 | 0.023 |
| | | | | 54 mm | 1 NC + 1 NO | MA | S1 | A | 771-.401-00 | | 4 | 56 | 47 |
| | | | | | | | C + A | 761-.401-00 | | 4 | 56 | 47 | 0.022 |
| | | | | M | S1 | A | 781-.401-00 | | 4 | 56 | 41 | 0.022 | |
| | | | | 2 NC + 2 NO | MA | S1 | A | 772-.401-00 | | 4 | 56 | 49 | 0.023 |
| | | | | | | | C + A | 762-.401-00 | | 4 | 56 | 49 | 0.023 |
| | | | | M | S1 | A | 782-.401-00 | | 4 | 56 | 43 | 0.023 | |
| | | IP 65 | 51 mm | 1 NC + 1 NO | MA | P | A | 771-.401-WP | 1 | 4 | 57 | 47 | 0.022 |
| | | | | | | C + A | 761-.401-WP | 1 | 4 | 57 | 47 | 0.022 | |
| | M | | | P | A | 781-.401-WP | 1 | 4 | 57 | 41 | 0.022 | | |
| | | | | C + A | 762-.401-WP | 1 | 4 | 57 | 49 | 0.023 | | | |
| | | | | 2 NC + 2 NO | MA | P | A | 772-.401-WP | 1 | 4 | 57 | 49 | 0.023 |
| | | | | | | | C + A | 762-.401-WP | 1 | 4 | 57 | 49 | 0.023 |
| | | | | M | P | A | 782-.401-WP | 1 | 4 | 57 | 43 | 0.023 | |
| | | | 54 mm | 1 NC + 1 NO | MA | S1 | A | 771-.401-W0 | | 4 | 56 | 47 | 0.022 |
| | | | | | | C + A | 761-.401-W0 | | 4 | 56 | 47 | 0.022 | |
| | | | M | S1 | A | 781-.401-W0 | | 4 | 56 | 41 | 0.022 | | |
| | | | 2 NC + 2 NO | MA | S1 | A | 772-.401-W0 | | 4 | 56 | 49 | 0.023 | |
| | | | | | | C + A | 762-.401-W0 | | 4 | 56 | 49 | 0.023 | |
| | | | M | S1 | A | 782-.401-W0 | | 4 | 56 | 43 | 0.023 | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)



Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

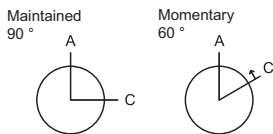
Keylock switch actuator 2 positions 55 mm, flush mounting


Actuators usable for front dimensions: \varnothing 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

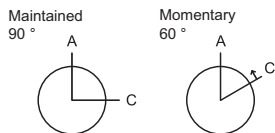
-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Front bezel set, flush mounting page 62



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | | Technical drawing | Circuit drawing |  | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|-------------------|-----------------|---|-------|
| | | | | | | | | 1 | 4 | | | | |
| Keylock switch actuator 2 positions 55 mm, flush mounting Standard lock B2 300 | IP 40 | 61 mm | 1 NC + 1 NO | MA | P | A | 921-.401-0P | 1 | 4 | 59 | 52 | 0.024 | |
| | | | | | | | C + A | 911-.401-0P | 1 | 4 | 59 | 52 | 0.024 |
| | | | M | P | A | 931-.401-0P | 1 | 4 | 59 | 46 | 0.024 | | |
| | | | | | | C + A | 912-.401-0P | 1 | 4 | 59 | 49 | 0.025 | |
| | | | 2 NC + 2 NO | MA | P | A | 922-.401-0P | 1 | 4 | 59 | 49 | 0.025 | |
| | | | | | | | C + A | 912-.401-0P | 1 | 4 | 59 | 49 | 0.025 |
| | | | M | P | A | 932-.401-0P | 1 | 4 | 59 | 43 | 0.025 | | |
| | | | | | | C + A | 913-.401-0P | 1 | 4 | 59 | 50 | 0.026 | |
| | | | 3 NC + 3 NO | MA | P | A | 923-.401-0P | 1 | 4 | 59 | 50 | 0.026 | |
| | | | | | | | C + A | 913-.401-0P | 1 | 4 | 59 | 50 | 0.026 |
| | | | M | P | A | 933-.401-0P | 1 | 4 | 59 | 44 | 0.026 | | |
| | | | | | | C + A | 914-.401-0P | 1 | 4 | 59 | 51 | 0.029 | |
| | 4 NC + 4 NO | MA | P | A | 924-.401-0P | 1 | 4 | 59 | 51 | 0.029 | | | |
| | | | | | C + A | 914-.401-0P | 1 | 4 | 59 | 51 | 0.029 | | |
| | M | P | A | 934-.401-0P | 1 | 4 | 59 | 45 | 0.029 | | | | |
| | | | | C + A | 915-.401-0P | 1 | 4 | 59 | 48 | 0.032 | | | |
| | 5 NC + 5 NO | MA | P | A | 925-.401-0P | 1 | 4 | 59 | 48 | 0.032 | | | |
| | | | | | C + A | 915-.401-0P | 1 | 4 | 59 | 48 | 0.032 | | |
| | M | P | A | 935-.401-0P | 1 | 4 | 59 | 42 | 0.032 | | | | |
| | | | | C + A | 915-.401-0P | 1 | 4 | 59 | 48 | 0.033 | | | |
| | 64 mm | | | 1 NC + 1 NO | MA | S1 | A | 921-.401-00 | | 4 | 58 | 52 | 0.024 |
| | | | | | | | | C + A | 911-.401-00 | | 4 | 58 | 52 |
| | | | | M | S1 | A | 931-.401-00 | | 4 | 58 | 46 | 0.024 | |
| | | | | | | | C + A | 912-.401-00 | | 4 | 58 | 49 | 0.025 |
| 2 NC + 2 NO | | | | MA | S1 | A | 922-.401-00 | | 4 | 58 | 49 | 0.025 | |
| | | | | | | | C + A | 912-.401-00 | | 4 | 58 | 49 | 0.025 |
| M | | | | S1 | A | 932-.401-00 | | 4 | 58 | 43 | 0.025 | | |
| | | | | | | C + A | 913-.401-00 | | 4 | 58 | 50 | 0.027 | |
| 3 NC + 3 NO | | | | MA | S1 | A | 923-.401-00 | | 4 | 58 | 50 | 0.027 | |
| | | | | | | | C + A | 913-.401-00 | | 4 | 58 | 50 | 0.027 |
| M | | | | S1 | A | 933-.401-00 | | 4 | 58 | 44 | 0.027 | | |
| | | | | | | C + A | 914-.401-00 | | 4 | 58 | 51 | 0.030 | |
| 4 NC + 4 NO | MA | S1 | A | 924-.401-00 | | 4 | 58 | 51 | 0.030 | | | | |
| | | | | C + A | 914-.401-00 | | 4 | 58 | 51 | 0.030 | | | |
| M | S1 | A | 934-.401-00 | | 4 | 58 | 45 | 0.030 | | | | | |
| | | | C + A | 915-.401-00 | | 4 | 58 | 48 | 0.033 | | | | |
| 5 NC + 5 NO | MA | S1 | A | 925-.401-00 | | 4 | 58 | 48 | 0.033 | | | | |
| | | | | C + A | 915-.401-00 | | 4 | 58 | 48 | 0.033 | | | |
| M | S1 | A | 935-.401-00 | | 4 | 58 | 42 | 0.033 | | | | | |
| | | | C + A | 915-.401-00 | | 4 | 58 | 48 | 0.033 | | | | |

Continuation see next page

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 2 positions 55 mm, flush mounting Standard lock B2 300 | IP 65 | 61 mm | 1 NC + 1 NO | MA | P | A | 921-.401-WP | 1 | 4 | 59 | 52 | 0.024 |
| | | | | | | C + A | 911-.401-WP | 1 | 4 | 59 | 52 | 0.024 |
| | | | M | P | A | 931-.401-WP | 1 | 4 | 59 | 46 | 0.024 | |
| | | | 2 NC + 2 NO | MA | P | A | 922-.401-WP | 1 | 4 | 59 | 49 | 0.025 |
| | | | | | | C + A | 912-.401-WP | 1 | 4 | 59 | 49 | 0.025 |
| | | | M | P | A | 932-.401-WP | 1 | 4 | 59 | 43 | 0.025 | |
| | | | 3 NC + 3 NO | MA | P | A | 923-.401-WP | 1 | 4 | 59 | 50 | 0.026 |
| | | | | | | C + A | 913-.401-WP | 1 | 4 | 59 | 50 | 0.026 |
| | | | M | P | A | 933-.401-WP | 1 | 4 | 59 | 44 | 0.026 | |
| | | | 4 NC + 4 NO | MA | P | A | 924-.401-WP | 1 | 4 | 59 | 51 | 0.029 |
| | | | | | | C + A | 914-.401-WP | 1 | 4 | 59 | 51 | 0.029 |
| | | | M | P | A | 934-.401-WP | 1 | 4 | 59 | 45 | 0.029 | |
| | | 5 NC + 5 NO | MA | P | A | 925-.401-WP | 1 | 4 | 59 | 48 | 0.032 | |
| | | | | | C + A | 915-.401-WP | 1 | 4 | 59 | 48 | 0.032 | |
| | | M | P | A | 935-.401-WP | 1 | 4 | 59 | 42 | 0.032 | | |
| | | 64 mm | 1 NC + 1 NO | MA | S1 | A | 921-.401-W0 | | 4 | 58 | 52 | 0.024 |
| | | | | | | C + A | 911-.401-W0 | | 4 | 58 | 52 | 0.024 |
| | | | M | S1 | A | 931-.401-W0 | | 4 | 58 | 46 | 0.024 | |
| | | | 2 NC + 2 NO | MA | S1 | A | 922-.401-W0 | | 4 | 58 | 49 | 0.025 |
| | | | | | | C + A | 912-.401-W0 | | 4 | 58 | 49 | 0.025 |
| | | | M | S1 | A | 932-.401-W0 | | 4 | 58 | 43 | 0.025 | |
| | | | 3 NC + 3 NO | MA | S1 | A | 923-.401-W0 | | 4 | 58 | 50 | 0.027 |
| | | | | | | C + A | 913-.401-W0 | | 4 | 58 | 50 | 0.027 |
| | | | M | S1 | A | 933-.401-W0 | | 4 | 58 | 44 | 0.027 | |
| 4 NC + 4 NO | MA | | S1 | A | 924-.401-W0 | | 4 | 58 | 51 | 0.030 | | |
| | | | | C + A | 914-.401-W0 | | 4 | 58 | 51 | 0.030 | | |
| M | S1 | | A | 934-.401-W0 | | 4 | 58 | 45 | 0.030 | | | |
| 5 NC + 5 NO | MA | S1 | A | 925-.401-W0 | | 4 | 58 | 48 | 0.033 | | | |
| | | | C + A | 915-.401-W0 | | 4 | 58 | 48 | 0.033 | | | |
| M | S1 | A | 935-.401-W0 | | 4 | 58 | 42 | 0.033 | | | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

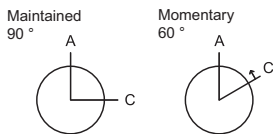
Keylock switch actuator 2 positions 70 mm, flush mounting

Actuators usable for front dimensions: \varnothing 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

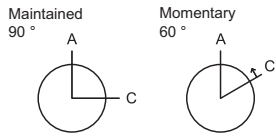
- Front bezel for Keylock switch and Selector switch 2 positions page 58
- Front bezel set, flush mounting page 62



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | | | | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|-------|-------|-----------------|-------|
| | | | | | | | | Mounting dimensions | Technical drawing | | | | |
| Keylock switch actuator 2 positions 70 mm, flush mounting Standard lock B2 300 | IP 40 | 76 mm | 1 NC + 1 NO | MA | P | A | 821-.401-0P | 1 | 4 | 61 | 52 | 0.026 | |
| | | | | | | | C + A | 811-.401-0P | 1 | 4 | 61 | 52 | 0.026 |
| | | | M | P | A | 831-.401-0P | 1 | 4 | 61 | 46 | 0.026 | | |
| | | | | | | C + A | 812-.401-0P | 1 | 4 | 61 | 49 | 0.027 | |
| | | | 2 NC + 2 NO | MA | P | A | 822-.401-0P | 1 | 4 | 61 | 49 | 0.027 | |
| | | | | | | | C + A | 812-.401-0P | 1 | 4 | 61 | 49 | 0.027 |
| | | | M | P | A | 832-.401-0P | 1 | 4 | 61 | 43 | 0.027 | | |
| | | | | | | C + A | 813-.401-0P | 1 | 4 | 61 | 50 | 0.028 | |
| | | | 3 NC + 3 NO | MA | P | A | 823-.401-0P | 1 | 4 | 61 | 50 | 0.028 | |
| | | | | | | | C + A | 813-.401-0P | 1 | 4 | 61 | 50 | 0.028 |
| | | | M | P | A | 833-.401-0P | 1 | 4 | 61 | 44 | 0.028 | | |
| | | | | | | C + A | 814-.401-0P | 1 | 4 | 61 | 51 | 0.031 | |
| | 4 NC + 4 NO | MA | P | A | 824-.401-0P | 1 | 4 | 61 | 51 | 0.031 | | | |
| | | | | | C + A | 814-.401-0P | 1 | 4 | 61 | 51 | 0.031 | | |
| | M | P | A | 834-.401-0P | 1 | 4 | 61 | 45 | 0.031 | | | | |
| | | | | C + A | 815-.401-0P | 1 | 4 | 61 | 48 | 0.034 | | | |
| | 5 NC + 5 NO | MA | P | A | 825-.401-0P | 1 | 4 | 61 | 48 | 0.034 | | | |
| | | | | | C + A | 815-.401-0P | 1 | 4 | 61 | 48 | 0.034 | | |
| | M | P | A | 835-.401-0P | 1 | 4 | 61 | 42 | 0.034 | | | | |
| | | | | C + A | 815-.401-0P | 1 | 4 | 61 | 48 | 0.034 | | | |
| | 79 mm | | | 1 NC + 1 NO | MA | S1 | A | 821-.401-00 | | 4 | 60 | 52 | 0.026 |
| | | | | | | | | C + A | 811-.401-00 | | 4 | 60 | 52 |
| | | | | M | S1 | A | 831-.401-00 | | 4 | 60 | 46 | 0.026 | |
| | | | | | | | C + A | 812-.401-00 | | 4 | 60 | 49 | 0.027 |
| 2 NC + 2 NO | | | | MA | S1 | A | 822-.401-00 | | 4 | 60 | 49 | 0.027 | |
| | | | | | | | C + A | 812-.401-00 | | 4 | 60 | 49 | 0.027 |
| M | | | | S1 | A | 832-.401-00 | | 4 | 60 | 43 | 0.027 | | |
| | | | | | | C + A | 813-.401-00 | | 4 | 60 | 50 | 0.029 | |
| 3 NC + 3 NO | | | | MA | S1 | A | 823-.401-00 | | 4 | 60 | 50 | 0.029 | |
| | | | | | | | C + A | 813-.401-00 | | 4 | 60 | 50 | 0.029 |
| M | | | | S1 | A | 833-.401-00 | | 4 | 60 | 44 | 0.029 | | |
| | | | | | | C + A | 814-.401-00 | | 4 | 60 | 51 | 0.032 | |
| 4 NC + 4 NO | MA | S1 | A | 824-.401-00 | | 4 | 60 | 51 | 0.032 | | | | |
| | | | | C + A | 814-.401-00 | | 4 | 60 | 51 | 0.032 | | | |
| M | S1 | A | 834-.401-00 | | 4 | 60 | 45 | 0.032 | | | | | |
| | | | C + A | 815-.401-00 | | 4 | 60 | 48 | 0.035 | | | | |
| 5 NC + 5 NO | MA | S1 | A | 825-.401-00 | | 4 | 60 | 48 | 0.035 | | | | |
| | | | | C + A | 815-.401-00 | | 4 | 60 | 48 | 0.035 | | | |
| M | S1 | A | 835-.401-00 | | 4 | 60 | 42 | 0.035 | | | | | |
| | | | C + A | 815-.401-00 | | 4 | 60 | 48 | 0.035 | | | | |

Continuation see next page

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 2 positions 70 mm, flush mounting Standard lock B2 300 | IP 65 | 76 mm | 1 NC + 1 NO | MA | P | A | 821-.401-WP | 1 | 4 | 61 | 52 | 0.026 |
| | | | | | | C + A | 811-.401-WP | 1 | 4 | 61 | 52 | 0.026 |
| | | | M | P | A | 831-.401-WP | 1 | 4 | 61 | 46 | 0.026 | |
| | | | 2 NC + 2 NO | MA | P | A | 822-.401-WP | 1 | 4 | 61 | 49 | 0.027 |
| | | | | | | C + A | 812-.401-WP | 1 | 4 | 61 | 49 | 0.027 |
| | | | M | P | A | 832-.401-WP | 1 | 4 | 61 | 43 | 0.027 | |
| | | | 3 NC + 3 NO | MA | P | A | 823-.401-WP | 1 | 4 | 61 | 50 | 0.028 |
| | | | | | | C + A | 813-.401-WP | 1 | 4 | 61 | 50 | 0.028 |
| | | | M | P | A | 833-.401-WP | 1 | 4 | 61 | 44 | 0.028 | |
| | | | 4 NC + 4 NO | MA | P | A | 824-.401-WP | 1 | 4 | 61 | 51 | 0.031 |
| | | | | | | C + A | 814-.401-WP | 1 | 4 | 61 | 51 | 0.031 |
| | | | M | P | A | 834-.401-WP | 1 | 4 | 61 | 45 | 0.031 | |
| | | 5 NC + 5 NO | MA | P | A | 825-.401-WP | 1 | 4 | 61 | 48 | 0.034 | |
| | | | | | C + A | 815-.401-WP | 1 | 4 | 61 | 48 | 0.034 | |
| | | M | P | A | 835-.401-WP | 1 | 4 | 61 | 42 | 0.034 | | |
| | | 79 mm | 1 NC + 1 NO | MA | S1 | A | 821-.401-W0 | | 4 | 60 | 52 | 0.026 |
| | | | | | | C + A | 811-.401-W0 | | 4 | 60 | 52 | 0.026 |
| | | | M | S1 | A | 831-.401-W0 | | 4 | 60 | 46 | 0.026 | |
| | | | 2 NC + 2 NO | MA | S1 | A | 822-.401-W0 | | 4 | 60 | 49 | 0.027 |
| | | | | | | C + A | 812-.401-W0 | | 4 | 60 | 49 | 0.027 |
| | | | M | S1 | A | 832-.401-W0 | | 4 | 60 | 43 | 0.027 | |
| | | | 3 NC + 3 NO | MA | S1 | A | 823-.401-W0 | | 4 | 60 | 50 | 0.029 |
| | | | | | | C + A | 813-.401-W0 | | 4 | 60 | 50 | 0.029 |
| | | | M | S1 | A | 833-.401-W0 | | 4 | 60 | 44 | 0.029 | |
| 4 NC + 4 NO | MA | | S1 | A | 824-.401-W0 | | 4 | 60 | 51 | 0.032 | | |
| | | | | C + A | 814-.401-W0 | | 4 | 60 | 51 | 0.032 | | |
| M | S1 | | A | 834-.401-W0 | | 4 | 60 | 45 | 0.032 | | | |
| 5 NC + 5 NO | MA | S1 | A | 825-.401-W0 | | 4 | 60 | 48 | 0.035 | | | |
| | | | C + A | 815-.401-W0 | | 4 | 60 | 48 | 0.035 | | | |
| M | S1 | A | 835-.401-W0 | | 4 | 60 | 42 | 0.035 | | | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

Keylock switch actuator 3 positions 45 mm, flush mounting

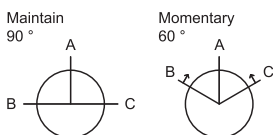
Actuators usable for front dimensions: \varnothing 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

Front bezel for Keylock switch and Selector switch 3 positions page 59

Front bezel set, flush mounting page 62



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Key remove | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|--|------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Keylock switch actuator 3 positions 45 mm, flush mounting Standard lock B2 300 | IP 40 | 51 mm | 2 NC + 2 NO | 0-MA-MA | P | B + A + C | 722-.401-0P | 1 | 4 | 57 | 40 | 0.023 |
| | | | | MA-0-MA | P | B + A + C | 712-.401-0P | 1 | 4 | 57 | 40 | 0.023 |
| | | | | MA-0-M | P | B + A | 742-.401-0P | 1 | 4 | 57 | 39 | 0.023 |
| | | | | M-0-MA | P | C + A | 752-.401-0P | 1 | 4 | 57 | 38 | 0.023 |
| | | M-0-M | P | A | 732-.401-0P | 1 | 4 | 57 | 37 | 0.023 | | |
| | | 54 mm | 2 NC + 2 NO | 0-MA-MA | S1 | B + A + C | 722-.401-00 | | 4 | 56 | 40 | 0.023 |
| | | | | MA-0-MA | S1 | B + A + C | 712-.401-00 | | 4 | 56 | 40 | 0.023 |
| | | | | MA-0-M | S1 | B + A | 742-.401-00 | | 4 | 56 | 39 | 0.023 |
| | M-0-MA | | | S1 | C + A | 752-.401-00 | | 4 | 56 | 38 | 0.023 | |
| | M-0-M | S1 | A | 732-.401-00 | | 4 | 56 | 37 | 0.023 | | | |
| | IP 65 | 51 mm | 2 NC + 2 NO | 0-MA-MA | P | B + A + C | 722-.401-WP | 1 | 4 | 57 | 40 | 0.023 |
| | | | | MA-0-MA | P | B + A + C | 712-.401-WP | 1 | 4 | 57 | 40 | 0.023 |
| | | | | MA-0-M | P | B + A | 742-.401-WP | 1 | 4 | 57 | 39 | 0.023 |
| | | | | M-0-MA | P | C + A | 752-.401-WP | 1 | 4 | 57 | 38 | 0.023 |
| | | M-0-M | P | A | 732-.401-WP | 1 | 4 | 57 | 37 | 0.023 | | |
| | | 54 mm | 2 NC + 2 NO | 0-MA-MA | S1 | B + A + C | 722-.401-W0 | | 4 | 56 | 40 | 0.023 |
| MA-0-MA | | | | S1 | B + A + C | 712-.401-W0 | | 4 | 56 | 40 | 0.023 | |
| MA-0-M | | | | S1 | B + A | 742-.401-W0 | | 4 | 56 | 39 | 0.023 | |
| M-0-MA | S1 | | | C + A | 752-.401-W0 | | 4 | 56 | 38 | 0.023 | | |
| M-0-M | S1 | A | 732-.401-W0 | | 4 | 56 | 37 | 0.023 | | | | |

Other key remove and key lock number 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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)




Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

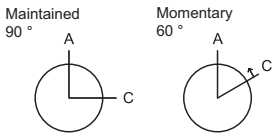
Selector switch actuator 2 positions 45 mm, flush mounting

Actuators usable for front dimensions: \square 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Front bezel set, flush mounting page 62
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | | |
|---|------------------|----------------|-------------|--------------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|-------|-------|
| Selector switch actuator 2 positions 45 mm, flush mounting | IP 40 | 51 mm | 1 NC + 1 NO | MA | P | 761-.700-0P | 1 | 16 | 34 | 26 | 0.011 | |
| | | | | M | P | 781-.700-0P | 1 | 16 | 34 | 20 | 0.011 | |
| | | | | 2 NC + 2 NO | MA | P | 762-.700-0P | 1 | 16 | 34 | 28 | 0.012 |
| | | | | | M | P | 782-.700-0P | 1 | 16 | 34 | 22 | 0.012 |
| | | 54 mm | 1 NC + 1 NO | MA | S1 | 761-.700-00 | | 16 | 33 | 26 | 0.011 | |
| | | | | M | S1 | 781-.700-00 | | 16 | 33 | 20 | 0.011 | |
| | | 2 NC + 2 NO | MA | S1 | 762-.700-00 | | 16 | 33 | 28 | 0.012 | | |
| | | | M | S1 | 782-.700-00 | | 16 | 33 | 22 | 0.012 | | |
| | IP 65 | 51 mm | 1 NC + 1 NO | MA | P | 761-.700-WP | 1 | 16 | 34 | 26 | 0.011 | |
| | | | | M | P | 781-.700-WP | 1 | 16 | 34 | 20 | 0.011 | |
| | | | 2 NC + 2 NO | MA | P | 762-.700-WP | 1 | 16 | 34 | 28 | 0.012 | |
| | | | | M | P | 782-.700-WP | 1 | 16 | 34 | 22 | 0.012 | |
| 54 mm | | 1 NC + 1 NO | MA | S1 | 761-.700-W0 | | 16 | 33 | 26 | 0.011 | | |
| | | | M | S1 | 781-.700-W0 | | 16 | 33 | 20 | 0.011 | | |
| | 2 NC + 2 NO | MA | S1 | 762-.700-W0 | | 16 | 33 | 28 | 0.012 | | | |
| | | M | S1 | 782-.700-W0 | | 16 | 33 | 22 | 0.012 | | | |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)




Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

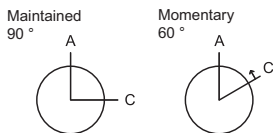
Selector switch actuator 2 positions 55 mm, flush mounting


Actuators usable for front dimensions: $\varnothing 24 \times 24 \text{ mm}$ | $\varnothing 24 \times 30 \text{ mm}$ | 25 mm dia.



Essential Accessories:

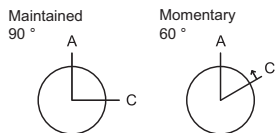
-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Front bezel set, flush mounting page 62
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing |  | |
|---|------------------|----------------|-------------|------------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|---|-------|
| | | | | | | | | | | | | |
| Selector switch actuator 2 positions 55 mm, flush mounting | IP 40 | 61 mm | 1 NC + 1 NO | MA | P | 911-.700-0P | 1 | 16 | 36 | 31 | 0.013 | |
| | | | | M | P | 931-.700-0P | 1 | 16 | 36 | 25 | 0.013 | |
| | | | 2 NC + 2 NO | MA | P | 912-.700-0P | 1 | 16 | 36 | 28 | 0.014 | |
| | | | | M | P | 932-.700-0P | 1 | 16 | 36 | 22 | 0.014 | |
| | | | 3 NC + 3 NO | MA | P | 913-.700-0P | 1 | 16 | 36 | 29 | 0.015 | |
| | | | | M | P | 933-.700-0P | 1 | 16 | 36 | 23 | 0.015 | |
| | | | 4 NC + 4 NO | MA | P | 914-.700-0P | 1 | 16 | 36 | 30 | 0.018 | |
| | | | | M | P | 934-.700-0P | 1 | 16 | 36 | 24 | 0.018 | |
| | | | 5 NC + 5 NO | MA | P | 915-.700-0P | 1 | 16 | 36 | 27 | 0.022 | |
| | | | | M | P | 935-.700-0P | 1 | 16 | 36 | 21 | 0.022 | |
| | | | 64 mm | 1 NC + 1 NO | MA | S1 | 911-.700-00 | | 16 | 35 | 31 | 0.013 |
| | | | | | M | S1 | 931-.700-00 | | 16 | 35 | 25 | 0.013 |
| | 2 NC + 2 NO | MA | | S1 | 912-.700-00 | | 16 | 35 | 28 | 0.014 | | |
| | | M | | S1 | 932-.700-00 | | 16 | 35 | 22 | 0.014 | | |
| | 3 NC + 3 NO | MA | | S1 | 913-.700-00 | | 16 | 35 | 29 | 0.015 | | |
| | | M | | S1 | 933-.700-00 | | 16 | 35 | 23 | 0.015 | | |
| | 4 NC + 4 NO | MA | | S1 | 914-.700-00 | | 16 | 35 | 30 | 0.019 | | |
| | | M | | S1 | 934-.700-00 | | 16 | 35 | 24 | 0.019 | | |
| | 5 NC + 5 NO | MA | | S1 | 915-.700-00 | | 16 | 35 | 27 | 0.023 | | |
| | | M | | S1 | 935-.700-00 | | 16 | 35 | 21 | 0.023 | | |

Continuation see next page

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|--------------------|---------------------|-------------------|-----------------|-------|-------|
| Selector switch actuator 2 positions 55 mm, flush mounting | IP 65 | 61 mm | 1 NC + 1 NO | MA | P | 911-.700-WP | 1 | 16 | 36 | 31 | 0.013 | |
| | | | | M | P | 931-.700-WP | 1 | 16 | 36 | 25 | 0.013 | |
| | | | 2 NC + 2 NO | MA | P | 912-.700-WP | 1 | 16 | 36 | 28 | 0.014 | |
| | | | | M | P | 932-.700-WP | 1 | 16 | 36 | 22 | 0.014 | |
| | | | 3 NC + 3 NO | MA | P | 913-.700-WP | 1 | 16 | 36 | 29 | 0.015 | |
| | | | | M | P | 933-.700-WP | 1 | 16 | 36 | 23 | 0.015 | |
| | | | 4 NC + 4 NO | MA | P | 914-.700-WP | 1 | 16 | 36 | 30 | 0.018 | |
| | | | | M | P | 934-.700-WP | 1 | 16 | 36 | 24 | 0.018 | |
| | | | 5 NC + 5 NO | MA | P | 915-.700-WP | 1 | 16 | 36 | 27 | 0.022 | |
| | | | | M | P | 935-.700-WP | 1 | 16 | 36 | 21 | 0.022 | |
| | | | 64 mm | 1 NC + 1 NO | MA | S1 | 911-.700-W0 | | 16 | 35 | 31 | 0.013 |
| | | | | | M | S1 | 931-.700-W0 | | 16 | 35 | 25 | 0.013 |
| | | 2 NC + 2 NO | | MA | S1 | 912-.700-W0 | | 16 | 35 | 28 | 0.014 | |
| | | | | M | S1 | 932-.700-W0 | | 16 | 35 | 22 | 0.014 | |
| | | 3 NC + 3 NO | | MA | S1 | 913-.700-W0 | | 16 | 35 | 29 | 0.015 | |
| | | | | M | S1 | 933-.700-W0 | | 16 | 35 | 23 | 0.015 | |
| | | 4 NC + 4 NO | | MA | S1 | 914-.700-W0 | | 16 | 35 | 30 | 0.019 | |
| | | | | M | S1 | 934-.700-W0 | | 16 | 35 | 24 | 0.019 | |
| | | 5 NC + 5 NO | | MA | S1 | 915-.700-W0 | | 16 | 35 | 27 | 0.023 | |
| | | | | M | S1 | 935-.700-W0 | | 16 | 35 | 21 | 0.023 | |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)




Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

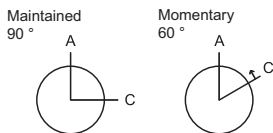
Selector switch actuator 2 positions 70 mm, flush mounting


Actuators usable for front dimensions: \varnothing 24 x 24 mm | \square 24 x 30 mm | 25 mm dia.



Essential Accessories:

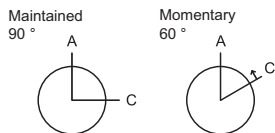
-  Front bezel for Keylock switch and Selector switch 2 positions page 58
-  Front bezel set, flush mounting page 62
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing |  | |
|---|------------------|----------------|-------------|------------------|--------------------|--------------------|--------------------|---------------------|-------------------|-----------------|---|-------|
| | | | | | | | | | | | | |
| Selector switch actuator 2 positions 70 mm, flush mounting | IP 40 | 76 mm | 1 NC + 1 NO | MA | P | 811-.700-0P | 1 | 16 | 38 | 31 | 0.015 | |
| | | | | M | P | 831-.700-0P | 1 | 16 | 38 | 25 | 0.015 | |
| | | | 2 NC + 2 NO | MA | P | 812-.700-0P | 1 | 16 | 38 | 28 | 0.016 | |
| | | | | M | P | 832-.700-0P | 1 | 16 | 38 | 22 | 0.016 | |
| | | | 3 NC + 3 NO | MA | P | 813-.700-0P | 1 | 16 | 38 | 29 | 0.017 | |
| | | | | M | P | 833-.700-0P | 1 | 16 | 38 | 23 | 0.017 | |
| | | | 4 NC + 4 NO | MA | P | 814-.700-0P | 1 | 16 | 38 | 30 | 0.020 | |
| | | | | M | P | 834-.700-0P | 1 | 16 | 38 | 24 | 0.020 | |
| | | | 5 NC + 5 NO | MA | P | 815-.700-0P | 1 | 16 | 38 | 27 | 0.024 | |
| | | | | M | P | 835-.700-0P | 1 | 16 | 38 | 21 | 0.024 | |
| | | | 79 mm | 1 NC + 1 NO | MA | S1 | 811-.700-00 | | 16 | 37 | 31 | 0.015 |
| | | | | | M | S1 | 831-.700-00 | | 16 | 37 | 25 | 0.015 |
| | | | | 2 NC + 2 NO | MA | S1 | 812-.700-00 | | 16 | 37 | 28 | 0.016 |
| | | | | | M | S1 | 832-.700-00 | | 16 | 37 | 22 | 0.016 |
| | 3 NC + 3 NO | MA | | S1 | 813-.700-00 | | 16 | 37 | 29 | 0.017 | | |
| | | M | | S1 | 833-.700-00 | | 16 | 37 | 23 | 0.017 | | |
| | 4 NC + 4 NO | MA | | S1 | 814-.700-00 | | 16 | 37 | 30 | 0.021 | | |
| | | M | | S1 | 834-.700-00 | | 16 | 37 | 24 | 0.021 | | |
| | 5 NC + 5 NO | MA | | S1 | 815-.700-00 | | 16 | 37 | 27 | 0.025 | | |
| | | M | | S1 | 835-.700-00 | | 16 | 37 | 21 | 0.025 | | |

Continuation see next page

Continued from previous page



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|--------------------|---------------------|-------------------|-----------------|-------|-------|
| Selector switch actuator 2 positions 70 mm, flush mounting | IP 65 | 76 mm | 1 NC + 1 NO | MA | P | 811-.700-WP | 1 | 16 | 38 | 31 | 0.015 | |
| | | | | M | P | 831-.700-WP | 1 | 16 | 38 | 25 | 0.015 | |
| | | | 2 NC + 2 NO | MA | P | 812-.700-WP | 1 | 16 | 38 | 28 | 0.016 | |
| | | | | M | P | 832-.700-WP | 1 | 16 | 38 | 22 | 0.016 | |
| | | | 3 NC + 3 NO | MA | P | 813-.700-WP | 1 | 16 | 38 | 29 | 0.017 | |
| | | | | M | P | 833-.700-WP | 1 | 16 | 38 | 23 | 0.017 | |
| | | | 4 NC + 4 NO | MA | P | 814-.700-WP | 1 | 16 | 38 | 30 | 0.020 | |
| | | | | M | P | 834-.700-WP | 1 | 16 | 38 | 24 | 0.020 | |
| | | | 5 NC + 5 NO | MA | P | 815-.700-WP | 1 | 16 | 38 | 27 | 0.024 | |
| | | | | M | P | 835-.700-WP | 1 | 16 | 38 | 21 | 0.024 | |
| | | | 79 mm | 1 NC + 1 NO | MA | S1 | 811-.700-W0 | | 16 | 37 | 31 | 0.015 |
| | | | | | M | S1 | 831-.700-W0 | | 16 | 37 | 25 | 0.015 |
| | | 2 NC + 2 NO | | MA | S1 | 812-.700-W0 | | 16 | 37 | 28 | 0.016 | |
| | | | | M | S1 | 832-.700-W0 | | 16 | 37 | 22 | 0.016 | |
| | | 3 NC + 3 NO | | MA | S1 | 813-.700-W0 | | 16 | 37 | 29 | 0.017 | |
| | | | | M | S1 | 833-.700-W0 | | 16 | 37 | 23 | 0.017 | |
| | | 4 NC + 4 NO | | MA | S1 | 814-.700-W0 | | 16 | 37 | 30 | 0.021 | |
| | | | | M | S1 | 834-.700-W0 | | 16 | 37 | 24 | 0.021 | |
| | | 5 NC + 5 NO | | MA | S1 | 815-.700-W0 | | 16 | 37 | 27 | 0.025 | |
| | | | | M | S1 | 835-.700-W0 | | 16 | 37 | 21 | 0.025 | |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)




Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99

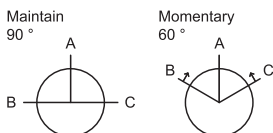
Selector switch actuator 3 positions 45 mm, flush mounting

Actuators usable for front dimensions: $\varnothing 24 \times 24 \text{ mm}$ | $\varnothing 24 \times 30 \text{ mm}$ | 25 mm dia.



Essential Accessories:

-  Front bezel for Keylock switch and Selector switch 3 positions page 59
-  Front bezel set, flush mounting page 62
-  Lever page 60



| | Front protection | Mounting depth | Contacts | Switching action | Terminals | Typ-Nr. | Component layout | Mounting dimensions | Technical drawing | Circuit drawing | |
|---|------------------|----------------|-------------|------------------|-----------|--------------------|------------------|---------------------|-------------------|-----------------|-------|
| Selector switch actuator 3 positions 45 mm, flush mounting | IP 40 | 51 mm | 2 NC + 2 NO | 0-MA-MA | P | 722-.700-0P | 1 | 16 | 34 | 19 | 0.012 |
| | | | | MA-0-MA | P | 712-.700-0P | 1 | 16 | 34 | 19 | 0.012 |
| | | | | MA-0-M | P | 742-.700-0P | 1 | 16 | 34 | 18 | 0.012 |
| | | | | M-0-MA | P | 752-.700-0P | 1 | 16 | 34 | 17 | 0.012 |
| | | | | M-0-M | P | 732-.700-0P | 1 | 16 | 34 | 16 | 0.012 |
| | | 54 mm | 2 NC + 2 NO | 0-MA-MA | S1 | 722-.700-00 | | 16 | 33 | 19 | 0.012 |
| | | | | MA-0-MA | S1 | 712-.700-00 | | 16 | 33 | 19 | 0.012 |
| | | | | MA-0-M | S1 | 742-.700-00 | | 16 | 33 | 18 | 0.012 |
| | | | | M-0-MA | S1 | 752-.700-00 | | 16 | 33 | 17 | 0.012 |
| | | | | M-0-M | S1 | 732-.700-00 | | 16 | 33 | 16 | 0.012 |
| | IP 65 | 51 mm | 2 NC + 2 NO | 0-MA-MA | P | 722-.700-WP | 1 | 16 | 34 | 19 | 0.012 |
| | | | | MA-0-MA | P | 712-.700-WP | 1 | 16 | 34 | 19 | 0.012 |
| | | | | MA-0-M | P | 742-.700-WP | 1 | 16 | 34 | 18 | 0.012 |
| | | | | M-0-MA | P | 752-.700-WP | 1 | 16 | 34 | 17 | 0.012 |
| | | | | M-0-M | P | 732-.700-WP | 1 | 16 | 34 | 16 | 0.012 |
| | | 54 mm | 2 NC + 2 NO | 0-MA-MA | S1 | 722-.700-W0 | | 16 | 33 | 19 | 0.012 |
| | | | | MA-0-MA | S1 | 712-.700-W0 | | 16 | 33 | 19 | 0.012 |
| | | | | MA-0-M | S1 | 742-.700-W0 | | 16 | 33 | 18 | 0.012 |
| | | | | M-0-MA | S1 | 752-.700-W0 | | 16 | 33 | 17 | 0.012 |
| | | | | M-0-M | S1 | 732-.700-W0 | | 16 | 33 | 16 | 0.012 |

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

Contacts: NC = Normally closed, NO = Normally open

Switching action: MA = Maintained action, M = Momentary action

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Component layout from page 83, Mounting dimensions from page 84, Technical drawing from page 88, Circuit drawing from page 99


Front

Lens plastic for button 35 mm

Lens 18 x 18 mm usable for devices with front dimension: \square 24 x 24 mm, flush mounting.

Lens 18 x 24 mm usable with front dimension: \square 24 x 30 mm, flush mounting.

Lens 18 mm dia. usable with front dimension: 25 mm dia., flush mounting.

| | Lens | \square 18 x 18 mm Typ-Nr. | \square 18 x 24 mm Typ-Nr. | \varnothing 18 mm Typ-Nr. |  |
|--|--------------------|---------------------------------|---------------------------------|--------------------------------|---|
| Lens plastic for button 35 mm illuminative | blue translucent | 600-3150-00 | 600-5150-00 | 600-1150-00 | 0.001 |
| | green translucent | 600-3140-00 | 600-5140-00 | 600-1140-00 | 0.001 |
| | orange translucent | 600-3110-00 | 600-5110-00 | 600-1110-00 | 0.001 |
| | red translucent | 600-3120-00 | 600-5120-00 | 600-1120-00 | 0.001 |
| | white translucent | 600-3160-00 | 600-5160-00 | 600-1160-00 | 0.001 |
| | yellow translucent | 600-3170-00 | 600-5170-00 | 600-1170-00 | 0.001 |
| illuminative (not recommended for film insert) | blue transparent | 600-3250-00 | 600-5250-00 | 600-1250-00 | 0.001 |
| | green transparent | 600-3240-00 | 600-5240-00 | 600-1240-00 | 0.001 |
| | orange transparent | 600-3210-00 | 600-5210-00 | 600-1210-00 | 0.001 |
| | red transparent | 600-3220-00 | 600-5220-00 | 600-1220-00 | 0.001 |
| | white transparent | 600-3260-00 | 600-5260-00 | 600-1260-00 | 0.001 |
| | yellow transparent | 600-3270-00 | 600-5270-00 | 600-1270-00 | 0.001 |
| non-illuminative | black opaque | 600-3190-00 | 600-5190-00 | 600-1190-00 | 0.001 |
| | grey opaque | 600-3180-00 | 600-5180-00 | 600-1180-00 | 0.001 |




Lens plastic for buttons 30 - 70 mm and 55 - 70 mm

Lens 18 x 18 mm usable for devices with front dimension: \square 24 x 24 mm, flush mounting.

Lens 18 x 24 mm usable with front dimension: \square 24 x 30 mm, flush mounting.


Lens 18 mm dia. usable with front dimension: 25 mm dia., flush mounting.

| | Front protection | Front dimension device | Lens | Typ-Nr. |  |
|---|------------------|------------------------|--------------------|--------------------|---|
| Lens plastic for buttons 30 - 70 mm and 55 - 70 mm illuminative | IP 40 | 18 mm dia. | blue translucent | 200-1150-00 | 0.001 |
| | | | green translucent | 200-1140-00 | 0.001 |
| | | | orange translucent | 200-1110-00 | 0.001 |
| | | | red translucent | 200-1120-00 | 0.001 |
| | | | white translucent | 200-1160-00 | 0.001 |
| | | | yellow translucent | 200-1170-00 | 0.001 |
| | | 18 x 18 mm | blue translucent | 200-3150-00 | 0.001 |
| | | | green translucent | 200-3140-00 | 0.001 |
| | | | orange translucent | 200-3110-00 | 0.001 |
| | | | red translucent | 200-3120-00 | 0.001 |
| | | | white translucent | 200-3160-00 | 0.001 |
| | | | yellow translucent | 200-3170-00 | 0.001 |
| | | 18 x 24 mm | blue translucent | 200-5150-00 | 0.001 |
| | | | green translucent | 200-5140-00 | 0.001 |
| | | | orange translucent | 200-5110-00 | 0.001 |
| | | | red translucent | 200-5120-00 | 0.001 |
| | | | white translucent | 200-5160-00 | 0.001 |
| | | | yellow translucent | 200-5170-00 | 0.001 |
| | | 24 mm dia. | blue translucent | 200-7150-00 | 0.001 |
| | | | green translucent | 200-7140-00 | 0.001 |
| | | | orange translucent | 200-7110-00 | 0.001 |
| | | | red translucent | 200-7120-00 | 0.001 |
| | | | white translucent | 200-7160-00 | 0.001 |
| | | | yellow translucent | 200-7170-00 | 0.001 |
| | 24 x 24 mm | blue translucent | 200-9150-00 | 0.001 | |
| | | green translucent | 200-9140-00 | 0.001 | |
| | | orange translucent | 200-9110-00 | 0.001 | |
| | | red translucent | 200-9120-00 | 0.001 | |
| | | white translucent | 200-9160-00 | 0.001 | |
| | | yellow translucent | 200-9170-00 | 0.001 | |
| | IP 65 | 24 mm dia. | blue translucent | 200-7150-W0 | 0.002 |
| | | | green translucent | 200-7140-W0 | 0.002 |
| | | | orange translucent | 200-7110-W0 | 0.002 |
| | | | red translucent | 200-7120-W0 | 0.002 |
| | | | white translucent | 200-7160-W0 | 0.002 |
| | | | yellow translucent | 200-7170-W0 | 0.002 |
| | | 24 x 24 mm | blue translucent | 200-9150-W0 | 0.002 |
| | | | green translucent | 200-9140-W0 | 0.002 |
| | | | orange translucent | 200-9110-W0 | 0.002 |
| | | | red translucent | 200-9120-W0 | 0.002 |
| | | | white translucent | 200-9160-W0 | 0.002 |
| | | | yellow translucent | 200-9170-W0 | 0.002 |




Continuation see next page

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| | Front protection | Front dimension device | Lens | Typ-Nr. |  |
|--|------------------|------------------------|--------------------|--------------------|---|
| Lens plastic for buttons 30 - 70 mm and 55 - 70 mm illuminative (not recommended for film insert) | IP 40 | 18 mm dia. | blue transparent | 200-1250-00 | 0.001 |
| | | | green transparent | 200-1240-00 | 0.001 |
| | | | orange transparent | 200-1210-00 | 0.001 |
| | | | red transparent | 200-1220-00 | 0.001 |
| | | | white transparent | 200-1260-00 | 0.001 |
| | | | yellow transparent | 200-1270-00 | 0.001 |
| | | 18 x 18 mm | blue transparent | 200-3250-00 | 0.001 |
| | | | green transparent | 200-3240-00 | 0.001 |
| | | | orange transparent | 200-3210-00 | 0.001 |
| | | | red transparent | 200-3220-00 | 0.001 |
| | | | white transparent | 200-3260-00 | 0.001 |
| | | | yellow transparent | 200-3270-00 | 0.001 |
| | | 18 x 24 mm | blue transparent | 200-5250-00 | 0.001 |
| | | | green transparent | 200-5240-00 | 0.001 |
| | | | orange transparent | 200-5210-00 | 0.001 |
| | | | red transparent | 200-5220-00 | 0.001 |
| | | | white transparent | 200-5260-00 | 0.001 |
| | | | yellow transparent | 200-5270-00 | 0.001 |
| | | 24 mm dia. | blue transparent | 200-7250-00 | 0.001 |
| | | | green transparent | 200-7240-00 | 0.001 |
| | | | orange transparent | 200-7210-00 | 0.001 |
| | | | red transparent | 200-7220-00 | 0.001 |
| | | | white transparent | 200-7260-00 | 0.001 |
| | | | yellow transparent | 200-7270-00 | 0.001 |
| | 24 x 24 mm | blue transparent | 200-9250-00 | 0.001 | |
| | | green transparent | 200-9240-00 | 0.001 | |
| | | orange transparent | 200-9210-00 | 0.001 | |
| | | red transparent | 200-9220-00 | 0.001 | |
| | | white transparent | 200-9260-00 | 0.001 | |
| | | yellow transparent | 200-9270-00 | 0.001 | |
| | IP 65 | Ø 24 mm | blue transparent | 200-7250-W0 | 0.002 |
| | | | green transparent | 200-7240-W0 | 0.002 |
| | | | orange transparent | 200-7210-W0 | 0.002 |
| | | | red transparent | 200-7220-W0 | 0.002 |
| | | | white transparent | 200-7260-W0 | 0.002 |
| | | | yellow transparent | 200-7270-W0 | 0.002 |
| | | 24 x 24 mm | blue transparent | 200-9250-W0 | 0.002 |
| | | | green transparent | 200-9240-W0 | 0.002 |
| | | | orange transparent | 200-9210-W0 | 0.002 |
| | | | red transparent | 200-9220-W0 | 0.002 |
| | | | white transparent | 200-9260-W0 | 0.002 |
| | | | yellow transparent | 200-9270-W0 | 0.002 |

Continuation see next page


Continued from previous page

| | Front protection | Front dimension device | Lens | Typ-Nr. |  | |
|---|------------------|------------------------|--------------|--------------------|---|-------|
| Lens plastic for buttons 30 - 70 mm and 55 - 70 mm non-illuminative | IP 40 | 18 mm dia. | black opaque | 200-1190-00 | 0.001 | |
| | | | grey opaque | 200-1180-00 | 0.001 | |
| | | 18 x 18 mm | black opaque | 200-3190-00 | 0.001 | |
| | | | grey opaque | 200-3180-00 | 0.001 | |
| | | 18 x 24 mm | black opaque | 200-5190-00 | 0.001 | |
| | | | grey opaque | 200-5180-00 | 0.001 | |
| | | 24 mm dia. | black opaque | 200-7190-00 | 0.001 | |
| | | | grey opaque | 200-7180-00 | 0.001 | |
| | | 24 x 24 mm | black opaque | 200-9190-00 | 0.001 | |
| | | | grey opaque | 200-9180-00 | 0.001 | |
| | | IP 65 | 24 mm dia. | black opaque | 200-7190-W0 | 0.002 |
| | | | | grey opaque | 200-7180-W0 | 0.002 |
| | 24 x 24 mm | | black opaque | 200-9190-W0 | 0.002 | |
| | | | grey opaque | 200-9180-W0 | 0.002 | |

Lens IP 65 is supplied with fitted sealing gland.

Mushroom-head cap

can only be used with front bezel 18 mm dia.

| | Mushroom had cap | ⌀ 24 x 24 mm Typ-Nr. | ⌀ 18 x 24 mm Typ-Nr. | Ø 24 mm Typ-Nr. |  |
|--|-----------------------|-------------------------|-------------------------|--------------------|---|
| Mushroom-head cap Front protection IP 40 | Plastic black opaque | 200-9390-00 | 200-5390-00 | 200-7390-00 | 0.005 |
| | Plastic green opaque | 200-9340-00 | 200-5340-00 | 200-7340-00 | 0.005 |
| | Plastic red opaque | 200-9320-00 | 200-5320-00 | 200-7320-00 | 0.005 |
| | Plastic yellow opaque | 200-9370-00 | 200-5370-00 | 200-7370-00 | 0.005 |




Front bezel for Keylock switch and Selector switch 2 positions

Front bezel 18 x 18 mm usable for devices with front dimension: \square 24 x 24 mm, flush mounting.

Front bezel 18 x 24 mm usable with front dimension: \square 24 x 30 mm, flush mounting.

Front bezel 18 mm dia. usable with front dimension: 25 mm dia., flush mounting.

| | Front dimension device | Switching action | Marking | Front cap | Typ-Nr. |  | |
|---|--|------------------|-----------------|---------------|--------------------|---|-------|
| Front bezel for Keylock switch and Selector switch 2 positions fits for all Typ-Nr. | 18 mm dia. | - | without marking | Plastic black | 200-2004-00 | 0.002 | |
| | | | | Plastic grey | 200-1004-00 | 0.002 | |
| | 18 x 18 mm | - | without marking | Plastic black | 200-4004-00 | 0.002 | |
| | | | | Plastic grey | 200-3004-00 | 0.002 | |
| | 18 x 24 mm | - | without marking | Plastic black | 200-6004-00 | 0.002 | |
| | | | | Plastic grey | 200-5004-00 | 0.002 | |
| | 24 mm dia. | - | without marking | Plastic black | 200-8004-00 | 0.002 | |
| | | | | Plastic grey | 200-7004-00 | 0.002 | |
| | 24 x 24 mm | - | without marking | Plastic black | 200-0004-00 | 0.002 | |
| | | | | Plastic grey | 200-9004-00 | 0.002 | |
| | for Typ-Nr. 761-xxx ... 772-xxx 911-xxx ... 925-xxx 811-xxx ... 825-xxx | 18 mm dia. | 0-MA | 0 - I (90°) | Plastic black | 200-2001-00 | 0.002 |
| | | | | | Plastic grey | 200-1001-00 | 0.002 |
| 18 x 18 mm | | 0-MA | 0 - I (90°) | Plastic black | 200-4001-00 | 0.002 | |
| | | | | Plastic grey | 200-3001-00 | 0.002 | |
| 18 x 24 mm | | 0-MA | 0 - I (90°) | Plastic black | 200-6001-00 | 0.002 | |
| | | | | Plastic grey | 200-5001-00 | 0.002 | |
| 24 mm dia. | | 0-MA | 0 - I (90°) | Plastic black | 200-8001-00 | 0.002 | |
| | | | | Plastic grey | 200-7001-00 | 0.002 | |
| 24 x 24 mm | | 0-MA | 0 - I (90°) | Plastic black | 200-0001-00 | 0.002 | |
| | | | | Plastic grey | 200-9001-00 | 0.002 | |
| for Typ-Nr. 781-xxx 782-xxx 931-xxx ... 935- xxx 831-xxx ... 835-xxx | 18 mm dia. | 0-M | 0 - I (60°) | Plastic black | 200-2001-01 | 0.002 | |
| | | | | Plastic grey | 200-1001-01 | 0.002 | |
| | 18 x 18 mm | 0-M | 0 - I (60°) | Plastic black | 200-4001-01 | 0.002 | |
| | | | | Plastic grey | 200-3001-01 | 0.002 | |
| | 18 x 24 mm | 0-M | 0 - I (60°) | Plastic black | 200-6001-01 | 0.002 | |
| | | | | Plastic grey | 200-5001-01 | 0.002 | |
| | 24 mm dia. | 0-M | 0 - I (60°) | Plastic black | 200-8001-01 | 0.002 | |
| | | | | Plastic grey | 200-7001-01 | 0.002 | |
| | 24 x 24 mm | 0-M | 0 - I (60°) | Plastic black | 200-0001-01 | 0.002 | |
| | | | | Plastic grey | 200-9001-01 | 0.002 | |



Front bezel and switch will be delivered assembled


Switching action: - = without, MA =

Front bezel for Keylock switch and Selector switch 3 positions

Front bezel 18 x 18 mm usable for devices with front dimension: \square 24 x 24 mm, flush mounting.

Front bezel 18 x 24 mm usable with front dimension: \square 24 x 30 mm, flush mounting.


Front bezel 18 mm dia. usable with front dimension: 25 mm dia., flush mounting.

| | Front dimension device | Switching action | Marking | Front cap | Typ-Nr. |  | |
|---|------------------------|------------------|------------------------|------------------------|--------------------|---|-------|
| Front bezel for Keylock switch and Selector switch 3 positions fits for all Typ-Nr. | 18 mm dia. | - | without marking | Plastic black | 200-2004-00 | 0.002 | |
| | | | | Plastic grey | 200-1004-00 | 0.002 | |
| | 18 x 18 mm | - | without marking | Plastic black | 200-4004-00 | 0.002 | |
| | | | | Plastic grey | 200-3004-00 | 0.002 | |
| | 18 x 24 mm | - | without marking | Plastic black | 200-6004-00 | 0.002 | |
| | | | | Plastic grey | 200-5004-00 | 0.002 | |
| | 24 mm dia. | - | without marking | Plastic black | 200-8004-00 | 0.002 | |
| | | | | Plastic grey | 200-7004-00 | 0.002 | |
| | 24 x 24 mm | - | without marking | Plastic black | 200-0004-00 | 0.002 | |
| | | | | Plastic grey | 200-9004-00 | 0.002 | |
| | for Typ-Nr. 712-xxx | 18 mm dia. | MA-0-MA | I (90°) - 0 - II (90°) | Plastic black | 200-2002-00 | 0.002 |
| | | | | | Plastic grey | 200-1002-00 | 0.002 |
| 18 x 18 mm | | MA-0-MA | I (90°) - 0 - II (90°) | Plastic black | 200-4002-00 | 0.002 | |
| | | | | Plastic grey | 200-3002-00 | 0.002 | |
| 18 x 24 mm | | MA-0-MA | I (90°) - 0 - II (90°) | Plastic black | 200-6002-00 | 0.002 | |
| | | | | Plastic grey | 200-5002-00 | 0.002 | |
| 24 mm dia. | | MA-0-MA | I (90°) - 0 - II (90°) | Plastic black | 200-8002-00 | 0.002 | |
| | | | | Plastic grey | 200-7002-00 | 0.002 | |
| 24 x 24 mm | | MA-0-MA | I (90°) - 0 - II (90°) | Plastic black | 200-0002-00 | 0.002 | |
| | | | | Plastic grey | 200-9002-00 | 0.002 | |
| for Typ-Nr. 722-xxx | | 18 mm dia. | 0-MA-MA | 0 (90°) - I - II (90°) | Plastic black | 200-2003-01 | 0.002 |
| | | | | | Plastic grey | 200-1003-01 | 0.002 |
| | 18 x 18 mm | 0-MA-MA | 0 (90°) - I - II (90°) | Plastic black | 200-4003-01 | 0.002 | |
| | | | | Plastic grey | 200-3003-01 | 0.002 | |
| | 18 x 24 mm | 0-MA-MA | 0 (90°) - I - II (90°) | Plastic black | 200-6003-01 | 0.002 | |
| | | | | Plastic grey | 200-5003-01 | 0.002 | |
| | 24 mm dia. | 0-MA-MA | 0 (90°) - I - II (90°) | Plastic black | 200-8003-01 | 0.002 | |
| | | | | Plastic grey | 200-7003-01 | 0.002 | |
| | 24 x 24 mm | 0-MA-MA | 0 (90°) - I - II (90°) | Plastic black | 200-0003-01 | 0.002 | |
| | | | | Plastic grey | 200-9003-01 | 0.002 | |
| | for Typ-Nr. 732-xxx | 18 mm dia. | M-0-M | I (60°) - 0 - II (60°) | Plastic black | 200-2002-02 | 0.002 |
| | | | | | Plastic grey | 200-1002-02 | 0.002 |
| 18 x 18 mm | | M-0-M | I (60°) - 0 - II (60°) | Plastic black | 200-4002-02 | 0.002 | |
| | | | | Plastic grey | 200-3002-02 | 0.002 | |
| 18 x 24 mm | | M-0-M | I (60°) - 0 - II (60°) | Plastic black | 200-6002-02 | 0.002 | |
| | | | | Plastic grey | 200-5002-02 | 0.002 | |
| 24 mm dia. | | M-0-M | I (60°) - 0 - II (60°) | Plastic black | 200-8002-02 | 0.002 | |
| | | | | Plastic grey | 200-7002-02 | 0.002 | |
| 24 x 24 mm | | M-0-M | I (60°) - 0 - II (60°) | Plastic black | 200-0002-02 | 0.002 | |
| | | | | Plastic grey | 200-9002-02 | 0.002 | |



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| | Front dimension device | Switching action | Marking | Front cap | Typ-Nr. |  |
|--|------------------------|------------------|------------------------|---------------|--------------------|---|
| Front bezel for Keylock switch and Selector switch 3 positions for Typ-Nr. 742-xxx | 18 mm dia. | MA-0-M | I (90°) - 0 - II (60°) | Plastic black | 200-2002-03 | 0.002 |
| | | | | Plastic grey | 200-1002-03 | 0.002 |
| | 18 x 18 mm | MA-0-M | I (90°) - 0 - II (60°) | Plastic black | 200-4002-03 | 0.002 |
| | | | | Plastic grey | 200-3002-03 | 0.002 |
| | 18 x 24 mm | MA-0-M | I (90°) - 0 - II (60°) | Plastic black | 200-6002-03 | 0.002 |
| | | | | Plastic grey | 200-5002-03 | 0.002 |
| | 24 mm dia. | MA-0-M | I (90°) - 0 - II (60°) | Plastic black | 200-8002-03 | 0.002 |
| | | | | Plastic grey | 200-7002-03 | 0.002 |
| | 24 x 24 mm | MA-0-M | I (90°) - 0 - II (60°) | Plastic black | 200-0002-03 | 0.002 |
| | | | | Plastic grey | 200-9002-03 | 0.002 |
| for Typ-Nr. 752-xxx | 18 mm dia. | M-0-MA | I (60°) - 0 - II (90°) | Plastic black | 200-2002-04 | 0.002 |
| | | | | Plastic grey | 200-1002-04 | 0.002 |
| | 18 x 18 mm | M-0-MA | I (60°) - 0 - II (90°) | Plastic black | 200-4002-04 | 0.002 |
| | | | | Plastic grey | 200-3002-04 | 0.002 |
| | 18 x 24 mm | M-0-MA | I (60°) - 0 - II (90°) | Plastic black | 200-6002-04 | 0.002 |
| | | | | Plastic grey | 200-5002-04 | 0.002 |
| | 24 mm dia. | M-0-MA | I (60°) - 0 - II (90°) | Plastic black | 200-8002-04 | 0.002 |
| | | | | Plastic grey | 200-7002-04 | 0.002 |
| | 24 x 24 mm | M-0-MA | I (60°) - 0 - II (90°) | Plastic black | 200-0002-04 | 0.002 |
| | | | | Plastic grey | 200-9002-04 | 0.002 |

Front bezel and switch will be delivered assembled

Switching action: - = without, MA = Maintained action, M = Momentary action

Lever

| | Lever | Typ-Nr. |  |
|--------------|-------------------------------|-------------------|---|
| Lever | Plastic black long | 200-904-00 | 0.001 |
| | Plastic black short | 200-704-00 | 0.001 |
| | Plastic chromium-plated long | 200-804-00 | 0.001 |
| | Plastic chromium-plated short | 200-604-00 | 0.001 |



Lever and switch will be delivered assembled


Buzzer element

Buzzer element 18 x 24 mm usable for devices with front dimension: \square 24 x 30 mm, flush mounting.

| | Colour | \square 24 x 24 mm Typ-Nr. | \square 18 x 24 mm Typ-Nr. |  |
|--|--------|---------------------------------|---------------------------------|---|
| Buzzer element Operation voltage : 12 VAC/DC | black | 970-0012-00 | 970-6012-00 | 0.004 |
| | grey | 970-9012-00 | 970-5012-00 | 0.004 |
| Operation voltage : 24 VAC/DC | black | 970-0024-00 | 970-6024-00 | 0.004 |
| | grey | 970-9024-00 | 970-5024-00 | 0.004 |
| Operation voltage : 6 VAC/DC | black | 970-0006-00 | 970-6006-00 | 0.004 |
| | grey | 970-9006-00 | 970-5006-00 | 0.004 |



Push-pull knob

| | Lever | Typ-Nr. |  |
|-----------------------|----------------------------|-------------------|---|
| Push-pull knob | Plastic blue transparent | 200-255-00 | 0.003 |
| | Plastic green transparent | 200-245-00 | 0.003 |
| | Plastic red transparent | 200-225-00 | 0.003 |
| | Plastic white transparent | 200-265-00 | 0.003 |
| | Plastic yellow transparent | 200-275-00 | 0.003 |




Front bezel for buttons 30 - 70 mm and 55 - 70 mm

Front bezel 18 x 18 mm usable for devices with front dimension: \square 24 x 24 mm, flush mounting.

Front bezel 18 x 24 mm usable for devices with front dimension: \square 24 x 30 mm, flush mounting.


Front bezel 18 mm dia. usable for devices with front dimension: 25 mm dia., flush mounting.

| | Front protection | Front dimension device | Front bezel | Typ-Nr. |  |
|--|------------------|------------------------|---------------|--------------------|---|
| Front bezel for buttons 30 - 70 mm and 55 - 70 mm | IP 40 | 18 mm dia. | Plastic black | 200-2000-00 | 0.002 |
| | | | Plastic grey | 200-1000-00 | 0.002 |
| | | 18 x 18 mm | Plastic black | 200-4000-00 | 0.002 |
| | | | Plastic grey | 200-3000-00 | 0.002 |
| | | 18 x 24 mm | Plastic black | 200-6000-00 | 0.002 |
| | | | Plastic grey | 200-5000-00 | 0.002 |
| | | 24 mm dia. | Plastic black | 200-8000-00 | 0.002 |
| | | | Plastic grey | 200-7000-00 | 0.002 |
| | | 24 x 24 mm | Plastic black | 200-0000-00 | 0.002 |
| | | | Plastic grey | 200-9000-00 | 0.002 |
| | IP 65 | 24 mm dia. | Plastic black | 200-8000-W0 | 0.002 |
| | | | Plastic grey | 200-7000-W0 | 0.002 |
| | | 24 x 24 mm | Plastic black | 200-0000-W0 | 0.002 |
| | | | Plastic grey | 200-9000-W0 | 0.002 |



Front bezel IP 65 is supplied with fitted sealing ring.


Front bezel for Mushroom-head pushbutton 55 - 70 mm

| | Front protection | Front bezel | Ø 18 Typ-Nr. |  |
|--|------------------|---------------|--------------------|---|
| Front bezel for Mushroom-head pushbutton 55 - 70 mm | IP 40 | Plastic black | 200-2000-00 | 0.002 |
| | | Plastic grey | 200-1000-00 | 0.002 |




Front bezel for Buzzer for 30- 55 mm

Front bezel 18 x 24 mm usable for devices with front dimension: □ 24 x 30 mm, flush mounting.

| | Front protection | Front bezel | □ 24 x 24 mm Typ-Nr. | □ 18 x 24 mm Typ-Nr. |  |
|---|------------------|---------------|-------------------------|-------------------------|---|
| Front bezel for Buzzer for 30- 55 mm | IP 40 | Plastic black | 200-0000-00 | 200-6000-00 | 0.002 |
| | | Plastic grey | 200-9000-00 | 200-5000-00 | 0.002 |




Front bezel set, flush mounting

| | Front protection | Front bezel | □ 24 x 24 mm Typ-Nr. | □ 24 x 30 mm Typ-Nr. | ∅ 25 mm Typ-Nr. |  |
|--|------------------|---------------|-------------------------|-------------------------|--------------------|---|
| Front bezel set, flush mounting | IP 65 | Plastic black | 200-4400-V0 | | | 0.007 |
| | | | | 200-6400-V0 | | 0.008 |
| | | | | | 200-8400-V0 | 0.006 |

For use as IP 40: Cut off (with knife) the anti-twisting at the front bezel/actuator




Front bezel set Buzzer, flush mounting

| | Front protection | Front bezel | □ 24 x 30 mm Typ-Nr. |  |
|---|------------------|---------------|-------------------------|---|
| Front bezel set Buzzer, flush mounting | IP 65 | Plastic black | 200-6400-V0 | 0.008 |

For use as IP 40: Cut off (with knife) the anti-twisting at the front bezel/actuator




Protective cover for buttons 35 mm

| | Front protection | □ 18 x 18 mm Typ-Nr. | □ 18 x 24 mm Typ-Nr. | Technical drawing |  |
|--|------------------|-------------------------|-------------------------|-------------------|---|
| Protective cover for buttons 35 mm hinged, transparent, with means for sealing | IP 40 | 200-4008-00 | 200-6008-00 | 62 | 0.002 |
| | IP 65 | 200-4008-W0 | 200-6008-W0 | 62 | 0.002 |



Technical drawing from page 88


Protective cover for buttons 55 - 70 mm

| | Front protection | Typ-Nr. | Typ-Nr. | Typ-Nr. | Technical drawing | |
|---|------------------|--------------------|--------------------|--------------------|-------------------|---|
| | | ∅ 24 x 24 mm | ∅ 18 x 18 mm | ∅ 18 x 24 mm | |  |
| Protective cover for buttons 55 - 70 mm hinged, transparent, not with means for sealing | IP 65 | 200-0008-W0 | | | 62 | 0.006 |
| hinged, transparent, with means for sealing | IP 40 | | 200-4008-00 | 200-6008-00 | 62 | 0.002 |



For use as IP 40: Cut off (with knife) the anti-twist device at the front bezel/actuator.
Technical drawing from page 88


Protective cover illuminated pushbutton | Key lock switch, flush mounting

| | Front protection | Protective cover | Typ-Nr. | Typ-Nr. | Technical drawing | |
|---|------------------|------------------|--------------------|--------------------|-------------------|---|
| | | | ∅ 24 x 24 mm | ∅ 24 x 30 mm | |  |
| Protective cover illuminated pushbutton Key lock switch, flush mounting hinged, transparent, with means for sealing | IP 65 | Plastic black | 200-4408-V0 | | 1 | 0.006 |
| | | | | 200-6408-V0 | 2 | 0.006 |




For use as IP 40: Cut off (with knife) the anti-twist device at the front bezel/actuator.
Technical drawing from page 88

Front protective cap

| | Front protection | Front protective cap | Typ-Nr. | Typ-Nr. | |
|--|------------------|------------------------------|--------------------|--------------------|---|
| | | | ∅ 18 x 18 mm | ∅ 18 x 24 mm |  |
| Front protective cap 24 x 24 mm, two-part, illumination exchangeable from the front | IP 65 | PVC natural transparent | 200-3009-W0 | | 0.003 |
| 24 x 30 mm, two-part, illumination exchangeable from the front | IP 65 | Silicone natural transparent | | 200-5009-W0 | 0.003 |




Protective guard for Illuminated pushbutton 55 - 70 mm

| | ⌀ 18 x 18 mm Typ-Nr. | ⌀ 18 x 24 mm Typ-Nr. | Ø 18 mm Typ-Nr. |  kg |
|---|-------------------------|-------------------------|--------------------|---|
| Protective guard for Illuminated pushbutton 55 - 70 mm 18 x 20 mm, Aluminium anodized natural | 200-3007-00 | | | 0.002 |
| 20 x 24 mm, Aluminium anodized natural | | 200-5007-00 | | 0.002 |
| 20 mm dia., Aluminium anodized natural | | | 200-1007-00 | 0.002 |



Pressure ring for Indicator 30 - 70mm


suitable to front bezel IP 65, 24 mm dia. and 24 x 24 mm

| | Typ-Nr. |  kg |
|---|--------------------|---|
| Pressure ring for Indicator 30 - 70mm Plastic | 200-8009-W0 | 0.001 |



Sealing ring for Indicator 30 - 70 mm | Illuminated pushbutton 55 - 70 mm


suitable to front bezel IP 65, 24 mm dia. and 24 x 24 mm

| | Typ-Nr. |  kg |
|--|--------------------|---|
| Sealing ring for Indicator 30 - 70 mm Illuminated pushbutton 55 - 70 mm Silicone | 200-9009-W0 | 0.001 |




Sealing bulb for Indicator 30 - 70 mm | Illuminated pushbutton 55 - 70 mm

suitable to front bezel IP 65, 24 mm dia. and 24 x 24 mm

| | Typ-Nr. |  kg |
|--|--------------------|---|
| Sealing bulb for Indicator 30 - 70 mm Illuminated pushbutton 55 - 70 mm Silicone | 200-7009-W0 | 0.001 |




Blind plug

| | Front protection | Blind plug | ∅ 24 x 24 mm Typ-Nr. | ∅ 18 x 18 mm Typ-Nr. | ∅ 18 x 24 mm Typ-Nr. | ∅ 18 mm Typ-Nr. |  |
|---|------------------|---------------|-------------------------|-------------------------|-------------------------|--------------------|---|
| Blind plug Mounting hole size 16.2 mm dia. | IP 65 | Plastic black | 200-0006-W0 | 200-4006-W0 | 200-6006-W0 | 200-2006-W0 | 0.003 |
| | IP 40 | Plastic black | | 200-4006-00 | 200-6006-00 | 200-2006-00 | 0.003 |
| | | Plastic grey | | 200-3006-00 | 200-5006-00 | 200-1006-00 | 0.003 |



Spare key

| | Typ-Nr. |  |
|---|--------------------|---|
| Spare key Emergency-stop pushbutton with key to release, Standard lock 1001 | 240-4001-00 | 0.005 |
| Keylock switch, Standard lock B2 300 | 240-2001-00 | 0.005 |
| Stop pushbutton, Standard lock B2 390 | 240-3001-00 | 0.005 |



At ordering indicate marked lock no.

Backside

Snap-action switching element block for 35 mm

| | Switching system | Contacts | Contact material | Terminals | Typ-Nr. | Component layout | | kg |
|---|------------------|-------------------|------------------|-----------|--------------------|------------------|----|-------|
| | | | | | | Circuit drawing | | |
| Snap-action switching element block for 35 mm | SA | 1 NC + 1 NO | Gold | P | 601-0000-0P | 1 | 36 | 0.006 |
| | | | | S1 | 601-0000-00 | | 36 | 0.006 |
| | | 1 NC + 1 NO + 1 D | Gold | P | 608-0000-0P | 1 | 34 | 0.006 |
| | | | | S1 | 608-0000-00 | | 34 | 0.006 |
| | | 1 NC + 1 NO + 2 D | Gold | P | 609-0000-0P | 1 | 33 | 0.006 |
| | | | | S1 | 609-0000-00 | | 33 | 0.006 |
| | | 2 NC + 2 NO | Gold | P | 602-0000-0P | 1 | 35 | 0.006 |
| | | | | S1 | 602-0000-00 | | 35 | 0.006 |



Switching system: SA = Snap-action switching element
 Contacts: NC = Normally closed, NO = Normally open, D = Diode
 Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)
 Component layout from page 83, Circuit drawing from page 99

Lamp element block for 35 mm

| | Dioden (1N4007) | Terminals | Typ-Nr. | Component layout | | kg |
|------------------------------|-----------------|-----------|--------------------|------------------|---|-------|
| | | | | Circuit drawing | | |
| Lamp element block for 35 mm | 1 D | P | 606-0000-0P | 1 | 4 | 0.006 |
| | | S1 | 606-0000-00 | | 4 | 0.006 |
| | 2 D | P | 607-0000-0P | 1 | 3 | 0.006 |
| | | S1 | 607-0000-00 | | 3 | 0.006 |
| | - | P | 600-0000-0P | 1 | 2 | 0.005 |
| | | S1 | 600-0000-00 | | 2 | 0.005 |



Dioden (1N4007): D = Diode, - = without
 Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)
 Component layout from page 83, Circuit drawing from page 99

Blind element

| | Typ-Nr. | kg |
|---------------------|--------------------|-------|
| Blind element white | 202-0600-00 | 0.002 |




Lamp terminal

| | Terminals | Typ-Nr. |  |
|---------------|-----------|--------------------|---|
| Lamp terminal | P | 270-0000-0P | 0.001 |
| | S1 | 270-0000-00 | 0.001 |




Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Intermediate section

| | Typ-Nr. |  |
|--|--------------------|---|
| Intermediate section for Illuminated pushbutton 55 mm, T1 3/4 MG, incl. Fixing nut | 260-9000-00 | 0.005 |
| for Illuminated pushbutton 55 mm, T5.5, incl. Fixing nut | 260-8000-00 | 0.008 |



Snap-action switching element

| | Switching system | Contacts | Contact material | Terminals | Typ-Nr. | Technical drawing |  |
|--|------------------|-------------|------------------|-----------|--------------------|-------------------|---|
| Snap-action switching element blue | SA | 1 NC + 1 NO | Gold | S1 | 201-0500-00 | 9 | 0.003 |
| green | SA | 1 NC + 1 NO | Gold | S1 | 201-0400-00 | 9 | 0.003 |
| grey | SA | 1 NC + 1 NO | Gold | P | 221-0800-0P | 9 | 0.003 |
| | | | | S1 | 201-0800-00 | 9 | 0.003 |




Switching system: SA = Snap-action switching element

Contacts: NC = Normally closed, NO = Normally open

Terminals: S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm), P = PCB terminal


Technical drawing from page 88

Holder for 2 Switching elements

| | Typ-Nr. |  |
|---|--------------------|---|
| Holder for 2 Switching elements Plastic, Pushbutton 35 mm, Keylock switch 45 mm Selector switch 45 mm | 270-3000-00 | 0.001 |
| Plastic, Push-Pull illuminated pushbutton | 270-2000-00 | 0.001 |




Holder for 3 Switching elements

| | Typ-Nr. |  kg |
|--|--------------------|--|
| Holder for 3 Switching elements Stainless steel, Illuminated pushbutton 55 - 70 mm | 270-1000-00 | 0.001 |




Spring with pin

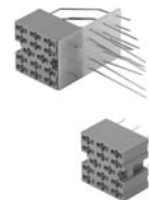
for maintained version at the intermediate section

| | Typ-Nr. |  kg |
|---|--------------------|--|
| Spring with pin Illuminated pushbutton 55 - 70 mm | 260-0010-00 | 0.001 |




PCB plug-in base

| | Terminals | Typ-Nr. |  kg |
|--|-----------|--------------------|--|
| PCB plug-in base | P | 280-1210-00 | 0.006 |
| 1 NC + 1 NO with lamp terminal, for devices 35 mm 45 mm, Pins 90° bent at right-angle | P | 280-1110-00 | 0.005 |
| 1 NC + 1 NO with lamp terminal, for devices 35 mm 45 mm, Pins axial | P | 280-1100-00 | 0.005 |
| 1 NC + 1 NO with lamp terminal, for devices 55 - 70 mm, Pins axial | P | 280-1200-00 | 0.006 |
| 1 NC + 1 NO with lamp terminal, for devices 55 - 70 mm, Pins bent at right angle | P | 280-2100-00 | 0.005 |
| 2 NC + 2 NO with lamp terminal, for devices 35 mm 45 mm 55 - 70 mm, Pins 90° axial | P | 280-2200-00 | 0.006 |
| 2 NC + 2 NO with lamp terminal, for devices 35 mm 45 mm 55 - 70 mm, Pins 90° bent at right-angle | P | 280-3100-00 | 0.005 |
| 3 NC + 3 NO with lamp terminal, for devices 35 mm 45 mm 55 - 70 mm, Pins 90° axial | P | 280-3200-00 | 0.006 |
| 3 NC + 3 NO with lamp terminal, for devices 35 mm 45 mm 55 - 70 mm, Pins 90° bent at right-angle | P | 280-0100-00 | 0.005 |
| Indicator 35 mm 30 - 70 mm, Pins axial | P | 280-0200-00 | 0.006 |
| Indicator 35 mm 30 - 70 mm, Pins bent at right-angle | P | | |




Terminals: P = PCB terminal

Multi-plug housing

| | Typ-Nr. |  kg |
|--|--------------------|--|
| Multi-plug housing for Flat receptacle with locating tongue, 14 terminal possibilities, 10 terminals plugable max. | 280-0000-00 | 0.002 |




Flat receptacle

| | Typ-Nr. |  |
|---|--------------------|---|
| Flat receptacle 2.8 x 0.5 mm with locating tongue for Multi pug-in housing, wire cross-section 0.1 ... 0.25 mm ² | 280-0001-00 | 0.001 |
| 2.8 x 0.5 mm with locating tongue for Multi pug-in housing, wire cross-section 0.5 ... 1.0 mm ² | 280-0002-00 | 0.001 |
| 2.8 x 0.5 mm without locating tongue, exclusive of Insulation sleeve Typ-Nr. 280-0010-00 use, wire cross-section 0.2 ... 0.75 mm ² | 280-0003-00 | 0.001 |




Flat receptacle with two outputs

| | Typ-Nr. |  |
|---|--------------------|---|
| Flat receptacle with two outputs 2.8 x 0.5 mm | 280-0004-00 | 0.001 |




Insulation sleeve

| | Typ-Nr. |  |
|---|--------------------|---|
| Insulation sleeve for Flat receptacle without locating tongue Typ-Nr. 280-0003-00 | 280-0010-00 | 0.001 |




Illumination

Filament lamp

| | Socket | Operating voltage/-current | Typ-Nr. |  |
|----------------------|-----------|----------------------------|---------------------|---|
| Filament lamp | T1 3/4 MG | 14 VAC/DC, 80 mA | 10-1310.1319 | 0.001 |
| | | 28 VAC/DC, 40 mA | 10-1313.1249 | 0.001 |
| | | 36 VAC/DC, 30 mA | 10-1316.1209 | 0.001 |
| | | 48 VAC/DC, 25 mA | 10-1319.1199 | 0.001 |
| | | 6.3 VAC/DC, 200 mA | 10-1307.1369 | 0.001 |
| | T5.5 | 12 VAC/DC, 100 mA | 10-1109.1329 | 0.001 |
| | | 24 VAC/DC, 50 mA | 10-1112.1279 | 0.001 |
| | | 36 VAC/DC, 35 mA | 10-1116.1229 | 0.001 |
| | | 48 VAC/DC, 25 mA | 10-1119.1199 | 0.001 |
| | | 6 VAC/DC, 200 mA | 10-1106.1369 | 0.001 |



Single-LED

| Socket | Light colour | Operating voltage/-current | Typ-Nr. |  kg | | |
|-------------------------|--------------------|----------------------------|---------------------|--|---------------------|-------|
| Single-LED T1 3/4 MG | blue | 12 VAC/DC, 7/14 mA | 10-2J09.1066 | 0.002 | | |
| | | 24 VAC/DC, 7/14 mA | 10-2J12.1066 | 0.002 | | |
| | | 28 VAC/DC, 7/14 mA | 10-2J13.1066 | 0.002 | | |
| | | 48 VAC/DC, 4/8 mA | 10-2J19.1046 | 0.002 | | |
| | | 6 VDC, 15 mA | 10-2J06.3146 | 0.002 | | |
| | | 12 VAC/DC, 4/7 mA | 10-2J09.1065 | 0.002 | | |
| | green | 24 VAC/DC, 4/7 mA | 10-2J12.1065 | 0.002 | | |
| | | 28 VAC/DC, 4/7 mA | 10-2J13.1065 | 0.002 | | |
| | | 48 VAC/DC, 2/4 mA | 10-2J19.1045 | 0.002 | | |
| | | 6 VDC, 7 mA | 10-2J06.3145 | 0.002 | | |
| | | red | 12 VAC/DC, 7/14 mA | 10-2J09.1062 | 0.002 | |
| | | | 24 VAC/DC, 7/14 mA | 10-2J12.1062 | 0.002 | |
| | 28 VAC/DC, 7/14 mA | | 10-2J13.1062 | 0.002 | | |
| | 48 VAC/DC, 4/8 mA | | 10-2J19.1042 | 0.002 | | |
| | 6 VDC, 15 mA | | 10-2J06.3142 | 0.002 | | |
| | 12 VAC/DC, 7/14 mA | | 10-2J09.1069 | 0.002 | | |
| | white diffuse | 24 VAC/DC, 7/14 mA | 10-2J12.1069 | 0.002 | | |
| | | 28 VAC/DC, 7/14 mA | 10-2J13.1069 | 0.002 | | |
| | | 48 VAC/DC, 4/8 mA | 10-2J19.1049 | 0.002 | | |
| | | 6 VDC, 15 mA | 10-2J06.3149 | 0.002 | | |
| | | yellow | 12 VAC/DC, 7/14 mA | 10-2J09.1064 | 0.002 | |
| | | | 24 VAC/DC, 7/14 mA | 10-2J12.1064 | 0.002 | |
| | 28 VAC/DC, 7/14 mA | | 10-2J13.1064 | 0.002 | | |
| | 48 VAC/DC, 4/8 mA | | 10-2J19.1044 | 0.002 | | |
| | 6 VDC, 15 mA | | 10-2J06.3144 | 0.002 | | |
| | T5.5 | | blue | 12 VAC/DC, 7/14 mA | 10-2109.1066 | 0.001 |
| | | 24 VAC/DC, 7/14 mA | | 10-2112.1066 | 0.001 | |
| | | 28 VAC/DC, 7/14 mA | | 10-2113.1066 | 0.001 | |
| | | 48 VAC/DC, 4/8 mA | | 10-2119.1046 | 0.001 | |
| | | 6 VDC, 15 mA | | 10-2106.3146 | 0.001 | |
| | | 12 VAC/DC, 7/14 mA | | 10-2109.1065 | 0.001 | |
| | | green | 24 VAC/DC, 7/14 mA | 10-2112.1065 | 0.001 | |
| | | | 28 VAC/DC, 7/14 mA | 10-2113.1065 | 0.001 | |
| | | | 48 VAC/DC, 4/8 mA | 10-2119.1045 | 0.001 | |
| | | | 6 VDC, 15 mA | 10-2106.3145 | 0.001 | |
| | | | red | 12 VAC/DC, 7/14 mA | 10-2109.1062 | 0.001 |
| | | | | 24 VAC/DC, 7/14 mA | 10-2112.1062 | 0.001 |
| | | 28 VAC/DC, 7/14 mA | | 10-2113.1062 | 0.001 | |
| | | 48 VAC/DC, 4/8 mA | | 10-2119.1042 | 0.001 | |
| | | 6 VDC, 15 mA | | 10-2106.3142 | 0.001 | |
| | | 12 VAC/DC, 7/14 mA | | 10-2109.1069 | 0.001 | |
| | | white diffuse | 24 VAC/DC, 7/14 mA | 10-2112.1069 | 0.001 | |
| | | | 28 VAC/DC, 7/14 mA | 10-2113.1069 | 0.001 | |
| | | | 48 VAC/DC, 4/8 mA | 10-2119.1049 | 0.001 | |
| | | | 6 VDC, 15 mA | 10-2106.3149 | 0.001 | |
| | | | yellow | 12 VAC/DC, 7/14 mA | 10-2109.1064 | 0.001 |
| | | | | 24 VAC/DC, 7/14 mA | 10-2112.1064 | 0.001 |
| | | 28 VAC/DC, 7/14 mA | | 10-2113.1064 | 0.001 | |
| 48 VAC/DC, 4/8 mA | | 10-2119.1044 | | 0.001 | | |
| 6 VDC, 15 mA | | 10-2106.3144 | | 0.001 | | |



Note:
AC operation through halve-wave rectifier possible, slight flickering can occur.

Diode element

| | Dioden (1N4007) | Terminals | Typ-Nr. |  |
|-----------------------------|-----------------|-----------|--------------------|---|
| Diode element red | 1 D | P | 222-0100-0P | 0.003 |
| | | S1 | 212-0100-00 | 0.003 |
| | 2 D | P | 214-0100-0P | 0.003 |
| | | S1 | 213-0100-00 | 0.003 |




Dioden (1N4007): D = Diode

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Series resistor

for lamp voltage reduction


| | Operating voltage | Typ-Nr. |  |
|---|-------------------|--------------------|---|
| Series resistor 10 kΩ, for filament lamp 48 V / 1.2 W | 240 V | 300-0050-00 | 0.002 |
| 2.7 kΩ, for filament lamp 48 V / 1.2 W | 110 V | 300-0010-00 | 0.002 |
| 3.3 kΩ, for filament lamp 48 V / 1.2 W | 125 V | 300-0020-00 | 0.002 |
| 4.7 kΩ, for filament lamp 48 V / 1.2 W | 145 V | 300-0030-00 | 0.002 |



Please keep to the country specific security rules.

Terminal plate empty


for fitting with series resistors

| | Typ-Nr. |  |
|---|--------------------|---|
| Terminal plate empty 10 spaces 125 x 60 x 15 mm | 300-0110-00 | 0.045 |
| 15 spaces 187.5 x 60 x 15 mm | 300-0115-00 | 0.090 |
| 20 spaces 250 x 60 x 15 mm | 300-0120-00 | 0.095 |
| 5 spaces 62.5 x 60 x 15 mm | 300-0105-00 | 0.025 |



Emergency-stop pushbutton


Label for Emergency-stop and Stop pushbutton

| | Front protection | Marking | Typ-Nr. |  |
|---|------------------|-----------------|--------------------|---|
| Label for Emergency-stop and Stop pushbutton 43 mm dia., yellow | IP 40 | ARRET D'URGENCE | 200-1300-04 | 0.002 |
| | | EMERGENCY STOP | 200-1300-03 | 0.002 |
| | | NOT HALT | 200-1300-08 | 0.002 |
| | | NOT-AUS | 200-1300-02 | 0.002 |
| | | without | 200-1300-01 | 0.002 |
| | IP 65 | ARRET D'URGENCE | 200-1300-W4 | 0.002 |
| | | EMERGENCY STOP | 200-1300-W3 | 0.002 |
| | | NOT HALT | 200-1300-W8 | 0.002 |
| | | NOT-AUS | 200-1300-W2 | 0.002 |
| | | without | 200-1300-W1 | 0.002 |



Other options on request

Slow-make switching element for Stop pushbutton

| | Switching system | Contacts | Contact material | Terminals | Typ-Nr. | Technical drawing |  |
|--|------------------|----------|------------------|-----------|--------------------|-------------------|---|
| Slow-make switching element for Stop pushbutton grey | SM | 1 NC | Gold | P | 231+0800-0P | 10 | 0.003 |
| | | | | S1 | 211+0800-00 | 10 | 0.003 |



Switching system: SM = Slow-make switching element

Contacts: NC = Normally closed

Terminals: P = PCB terminal, S1 = Soldering terminal (also pluggable 2.8 x 0.5 mm)

Technical drawing from page 88


Dismantling tool for Emergency-stop pushbutton, foolproof

| | Typ-Nr. |  |
|--|--------------------|---|
| Dismantling tool for Emergency-stop pushbutton, foolproof | 300-0017-00 | 0.004 |




Assembling

Fixing nut, raised mounting

| | Typ-Nr. |  |
|--|--------------------|---|
| Fixing nut, raised mounting | 260-0003-00 | 0.001 |
| Plastic black, panel thickness 1 ... 3 mm, for devices 35 mm | | |
| Plastic grey, panel thickness 1 ... 3 mm, for devices 30 - 70 mm | 260-0001-00 | 0.001 |
| Plastic grey, panel thickness 3 ... 5 mm, for devices 30 - 70 mm | 260-0002-00 | 0.001 |
| Plastic grey, panel thickness 5 ... 7 mm, for devices 30 - 70 mm | 260-0005-00 | 0.001 |




Fixing nut, flush mounting

| | Typ-Nr. |  |
|--|--------------------|---|
| Fixing nut, flush mounting | 260-0003-00 | 0.001 |
| Plastic black, panel thickness 1 ... 3 mm, for devices 35 mm | | |
| Plastic grey, panel thickness 3 ... 5 mm, for devices 30 - 70 mm | 260-0002-00 | 0.001 |




Location strip, raised mounting

All devices without Emergency-stop pushbutton foolproof

| | Typ-Nr. |  |
|--|--------------------|---|
| Location strip, raised mounting | 260-0020-00 | 0.001 |
| Anti-twist device, in-line arrays or single switches, graduation 18 mm | | |
| Anti-twist device, in-line arrays or single switches, graduation 24 mm | 260-0021-00 | 0.001 |




Lens remover

| | Typ-Nr. |  |
|---------------------|--------------------|---|
| Lens remover | 300-0001-00 | 0.012 |



Lamp remover


| | Typ-Nr. |  |
|---------------------|--------------------|---|
| Lamp remover | 300-0002-00 | 0.003 |



CAUTION


A switching process might be released when replacing the lamp/LED !

Mounting tool

| | Typ-Nr. |  |
|---|--------------------|---|
| Mounting tool | 300-0003-00 | 0.007 |
| for tightening (or loosening) of the Fixing nut (at dismantled Element block) | | |




Contact element pliers

| | Typ-Nr. |  kg |
|---|--------------------|--|
| Contact element pliers for dismantling the switching elements off the holder for 3 switching elements | 300-0005-00 | 0.013 |




Jaw spanner

| | Typ-Nr. |  kg |
|--|--------------------|--|
| Jaw spanner for tightening (or loosening) fixing nut and dismantling of the element blocks (mounting depth 35 - 70 mm) | 300-0004-00 | 0.003 |



Flat receptacle remover

| | Typ-Nr. |  kg |
|--|--------------------|--|
| Flat receptacle remover for removing the Flat receptacle from the Multi-plug housing (280-0000-00) | 300-0006-00 | 0.001 |



Device

General

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

1. Front
Interface Human-Switch with state detector.
2. Intermediate section
Set and reset device, lamp holder, latching funktion.
3. Switching element block
Up to 5 switching elements can be integrated in a switching element block.

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

Environmental conditions

Shock resistance

(single impacts, semi-sinusoidal)
500 m/s², puls width 11 ms, as per EN IEC 60068-2-27
max. 150 m/s², pulse width 11 ms, as per EN IEC 60068-2-29

Vibration resistance

(sinusoidal)
max. 100 m/s² at 10 Hz ... 500 Hz, as per EN IEC 60068-2-6

Approvals

Approbations

CSA
ENEC (EN 61058)
UL
VDE

Declaration of conformity

CE
RoHS

Front

General

The front notifies the switching status, serves for activation of the switch and determines its type of protection. With the exception of the front 18 mm dia. of the illuminated pushbuttons 55 and 70 mm, all front bezel elements have activation protection.

Material

Lens

Polycarbonate (PC), as per UL94 V0

Front bezel

Polybutylene terephthalate (PBT), as per UL94 V0

Actuator 35 mm

Polybutylene terephthalate (PBT), as per UL94 V0

Lock housing

Polybutylene terephthalate (PBT), as per UL94 V0

Lock cylinder

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

Environmental conditions

Protection degree

IP 67, IP 65 or IP 40, as per EN IEC 60529

Intermediate section

General

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

Material

Housing

Polycarbonate (PC), as per UL94 V0

Lamp terminal

Nickel silver

Mechanical characteristics

Mechanical lifetime

| | | |
|------------------------------|------------|---------------------|
| Illuminated pushbutton | >2 million | cycles of operation |
| Keylock- and Selector switch | >50 000 | cycles of operation |
| Emergency-stop switch | >8 000 | cycles of operation |
| Illuminated push-pull switch | >250 000 | cycles of operation |

Electrical characteristics

Electric strength

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

Isolation resistance

>10¹² Ω as per DIN IEC 60512-2-10

Environmental conditions

Storage temperature

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

Operating temperature

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

Switching element block

General

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

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

Material

Holder for 2 switching elements

Polyamide (PA 6), as per UL 94 V0

Holder for 3 switching elements

Stainless steel

Lamp terminal

CuBe, 2 µm Optalloy

Mechanical characteristics

Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal, Brass gold plated
Wire cross-section 1.0 mm² max.

Electrical characteristics

Electric strength

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

Isolation resistance

>10¹² Ω

Electrical life

>10 000 cycles of operation

EN IEC 60947-5-1, AC-12

Voltage 24 V 48 V 75 V 110 V 250 V

Current 6 A 6 A 5 A 2 A 0.5 A

EN IEC 61058-1 (inductive)

Voltage 250 V

Current 1.5 A

Conventional free air thermal current I_{th}

6 A from 1 to 3-poles switching element block

4 A for 4- and 5-poles Switching element block. Limited on thermal reasons to I_{max} = 4 A

Switch rating

as per EN IEC 61058-1

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

250 V, 4 A (non-inductive) with 4 or 5 switching elements

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

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

5 VAC/DC, 1 mA min.

Snap-action switching element

Switching system

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

Material

Housing

Polyethylene terephthalate (PETP), as per UL 94 V0

Contacts

AgNi, 2 µm gold plated

Contact carrier

Brass or CuBe

Mechanical characteristics

Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal, Brass gold plated
Wire cross-section 1.0 mm² max.

Actuating force

For each snap-action switching element approx. 2 N

Rebound time

typically 0.5 µs

Contact opening width

2 x 0.65 mm

Contact cleaning path

2 x 0.6 mm

Mechanical lifetime

2 million cycles of operation

Electrical characteristics

Contact resistance

New state with gold plated contact ≤50 mΩ, statically

Environmental conditions

Storage temperature

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

Operating temperature

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

Slow-make switching element Stop pushbutton

Switching system

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 µm gold coating. The Stop slow-make element is designed according to EN IEC 60947-5-1.

Material

Housing

Rynite (PET), as per UL 94 V0

Contacts

AgNi, 2 µm gold plated

Contact carrier

Brass or CuBe

Mechanical characteristics

Terminals

Soldering terminal (also pluggable 2.8 x 0.5 mm) or PCB terminal, Brass gold plated
Wire cross-section 1.0 mm² max.

Contact opening width

>2 x 1.5 mm

Mechanical lifetime

8 000 cycles of operation

Electrical characteristics

Rated Operational Voltage U_e

250 VAC, as per EN IEC 60947-1

Rated Insulation Voltage U_i

250 V, as per EN IEC 60947-1

Electrical life

8000 cycles of operation at 250 VAC, 1 A

Conventional free air thermal current I_{th}

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

Switch rating

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

Short-circuit protection

Series-connected blow-out fuse 5 A gL

Environmental conditions

Storage temperature

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

Operating temperature

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

Emergency-stop pushbutton foolproof

Switching system

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

Material

Mushroom-head cap

Polyamide (PA)

Actuator housing

Polyetherimide (PEI), self-extinguishing

Switching element

Polyamide (PA), Polysulfon (PSU)

Material of contact

Silver (Ag)

Mechanical characteristics

Terminals

Soldering terminal

max. wire-cross section 2 x 1.0 mm²

max. wire-cross section of stranded cable 1 x 0.75 mm²

also pluggable 2.8 x 0.5 mm

Actuating force

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

Unlock torque

15 Ncm

Actuating travel

10 mm

Rebound time

≤2 ms

Mechanical lifetime

50 000 cycles of operations

Electrical characteristics

Rated Operational Voltage U_e

250 VAC, as per EN IEC 60947-1

Rated Insulation Voltage U_i

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

Contact resistance

New state ≤50 mΩ, as per DIN IEC 60512-2-5

Electrical life

6050 cycles of operation

Conventional free air thermal current I_{th}

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

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

Switch rating

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

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

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

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

Switch rating (non-inductive) with silver contact (gold-plated)

| | | | | |
|---------|--------|--------|---------|---------|
| Voltage | 24 VDC | 60 VDC | 110 VDC | 240 VDC |
| Current | 6.0 A | 2.0 A | 0.7 A | 0.5 A |

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

| | | | | |
|---------|--------|--------|---------|---------|
| Voltage | 24 VDC | 60 VDC | 110 VDC | 240 VDC |
| Current | 2.0 A | 1.0 A | 0.4 A | 0.2 A |

Recommended minimum operational data

Silver contact (Soldering terminal) 20 VAC, 10 mA

Electric strength

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

Short-circuit protection

Series-connected blow-out fuse 10 A gL

Overvoltage category

III, as per EN IEC 60947-5-1

Degree of pollution

3, as per EN IEC 60947-1

Environmental conditions

Storage temperature

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

Operating temperature

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

Shock resistance

(single impacts, semi-sinusoidal)

500 m/s²puls width 11 ms, as per EN IEC 60068-2-27

Vibration resistance

(sinusoidal)

max. 100 m/s² at 10 Hz ... 2000 Hz, amplitude 0.75 mm, as per EN IEC 60068-2-6

Protection degree

as per EN IEC 60529

Frontside IP 65 | backside IP 40

Approvals

Approbations

CSA

UL

VDE

Declaration of conformity

CE

RoHS

Electrical characteristics

Operating voltage

6, 12 and 24 V AC/DC ±10 %

Power consumption

approx. 13 mA

Acoustics

approx. 84 dB at 0.1 m

Frequency (tone)

approx. 2.3 kHz

Diode element

General

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

Material

Housing

Polyethylene terephthalate (PETP), as per UL 94 V0

Mechanical characteristics

Terminals

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

Brass gold plated

Wire cross-section 1.0 mm² max.

Electrical characteristics

Diode

1N4007, rated current = 1.0 A, $V_{RRM} = 1000$ V

Blind element

General

Insert in empty places in the switching element block. Non-conducting and without electrical function.

Material

Housing

Polybutylene terephthalate (PBT), as per UL94 V0

Buzzer

General

Device with reverse-connect protection.

Mechanical characteristics

Terminals

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

Brass gold plated

Wire cross-section 1.0 mm² max.

General notes

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

SWISSTAC switches with mounting depths of 55 mm and 70 mm can be combined into interlocking systems of up to 20 switches. The only exception is variant 7 of the interlocking system with pushbutton (see below), where the maximum number of combined switches is 10. The switches are mechanically interlocked. There are two types to choose from:

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

The distance separating switches in an interlock system can be increased in steps of 6 mm from a minimum of 18 mm (between switch centre-lines). Irregular spacings and/or blanks in a system are also possible. No special cutouts in the fascia panel are required, as the hole patterns match the individual switches.

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

Variants of switch interlock system

For each type of switch interlock system there is a choice of seven different variants:

Variant 1

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

Variant 2

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

Variant 3

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

Variant 4

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

Variant 5

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

Variant 6

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

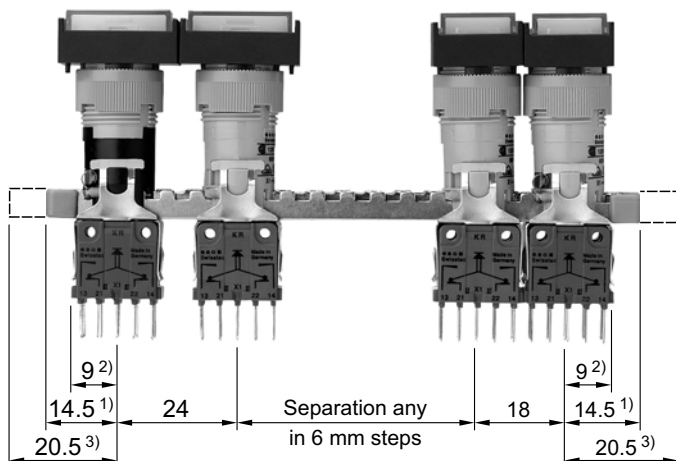
Variant 7

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

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

Switch interlock system with pushbutton

All dimensions in mm



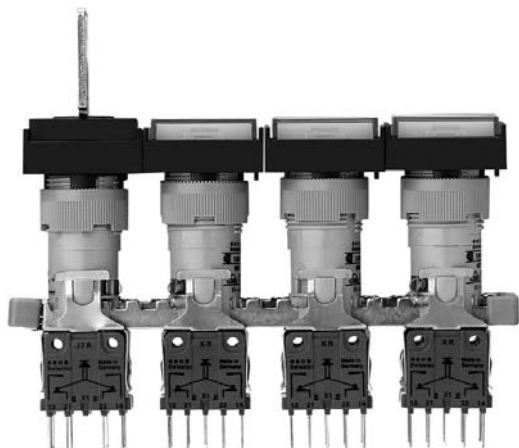
Centre line (CL) spacing

- 1) for variants 1, 3 - 7 14.5 mm
- 2) for variants 1, 3 - 7 reduction to 9.0 mm at extra cost
- 3) for variant 2 at least 20.5 mm

Standard switch interlock system with keylock switch

For dimensions, see Standard switch interlock system.

All dimensions in mm



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

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

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

Suppressor circuits

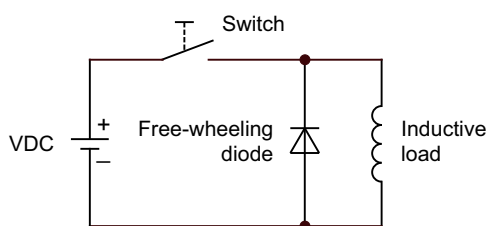
When switching inductive loads such as relays, DC motors, and DC solenoids, it is always important to absorb surges (e.g. with a diode) to protect the contacts. When these inductive loads are switched off, a counter emf can severely damage switch contacts and greatly shorten lifetime.

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

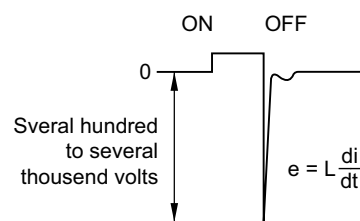
The free-wheeling diode should be chosen so that the reverse breakdown voltage is greater than the voltage driving the inductive load. The DC blocking voltage (V_R) of the free-wheeling diode can be found in the datasheet of a diode. The forward current should be equal or greater than the maximum current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

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

Switching with inductive load
Fig. 1



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



General notes

Engraving

The lens top or lens holder can be engraved in the most commonly used world languages, in DIN 1451-3 close spacing, other typefaces are available.

Colour lettering

White for lens tops red, blue, green and black. Black for lens 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 pushbutton or indicator. However, the lens can be mounted turned through 180 °.

Hot stamping

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

Important !

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

Film inserts

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

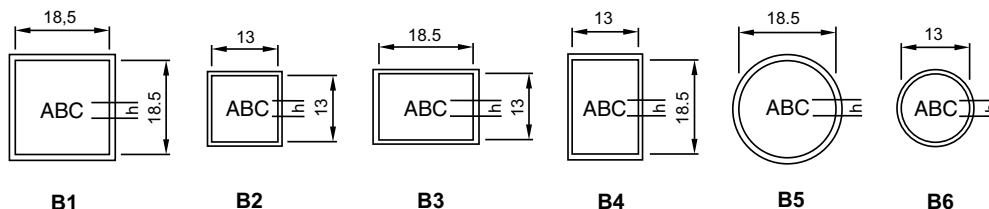
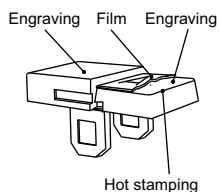
Film thickness is 0.1 mm max..

Important !

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

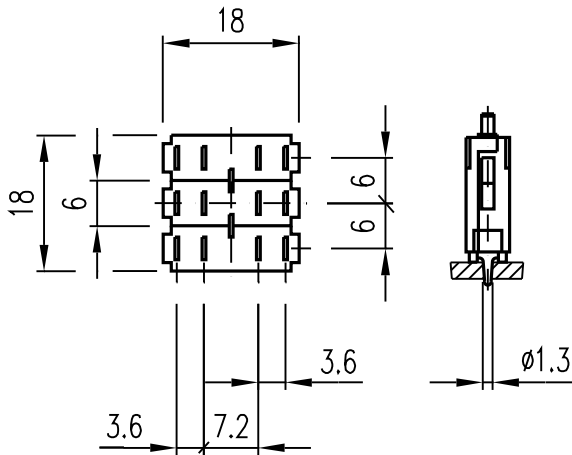
All dimensions in mm

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



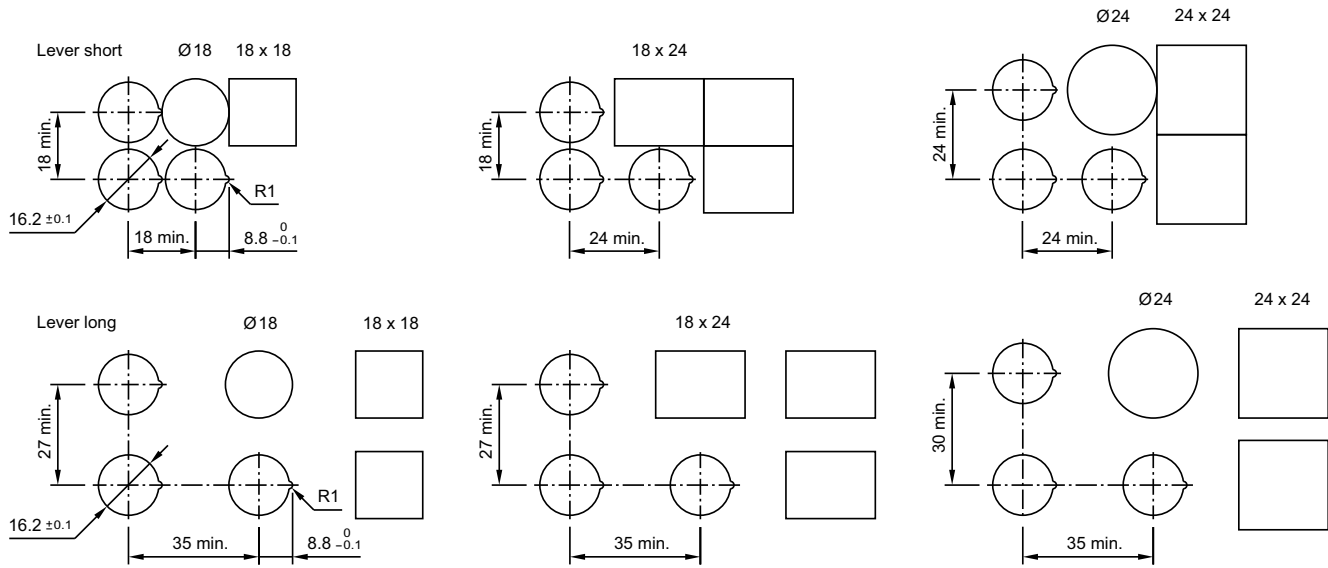
Component layout

1 Buzzer actuator 30 - 55 mm page 11 | Illuminated pushbutton actuator 55 - 70 mm page 12 | Stop pushbutton 55 - 70 mm page 13 | Mushroom-head pushbutton actuator 55 - 70 mm page 16 | Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch actuator 3 positions 45 mm page 22 | Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 3 positions 45 mm page 28 | Illuminated push-pull pushbutton actuator 45 mm page 29 | Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 page 30 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 page 32 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 page 35 | Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 page 37 | Indicator actuator 30 - 70 mm, flush mounting page 39 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41 | Keylock switch actuator 2 positions 45 mm, flush mounting page 42 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45 | Keylock switch actuator 3 positions 45 mm, flush mounting page 47 | Selector switch actuator 2 positions 45 mm, flush mounting page 48 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51 | Selector switch actuator 3 positions 45 mm, flush mounting page 53 | Snap-action switching element block for 35 mm page 66 | Lamp element block for 35 mm page 66



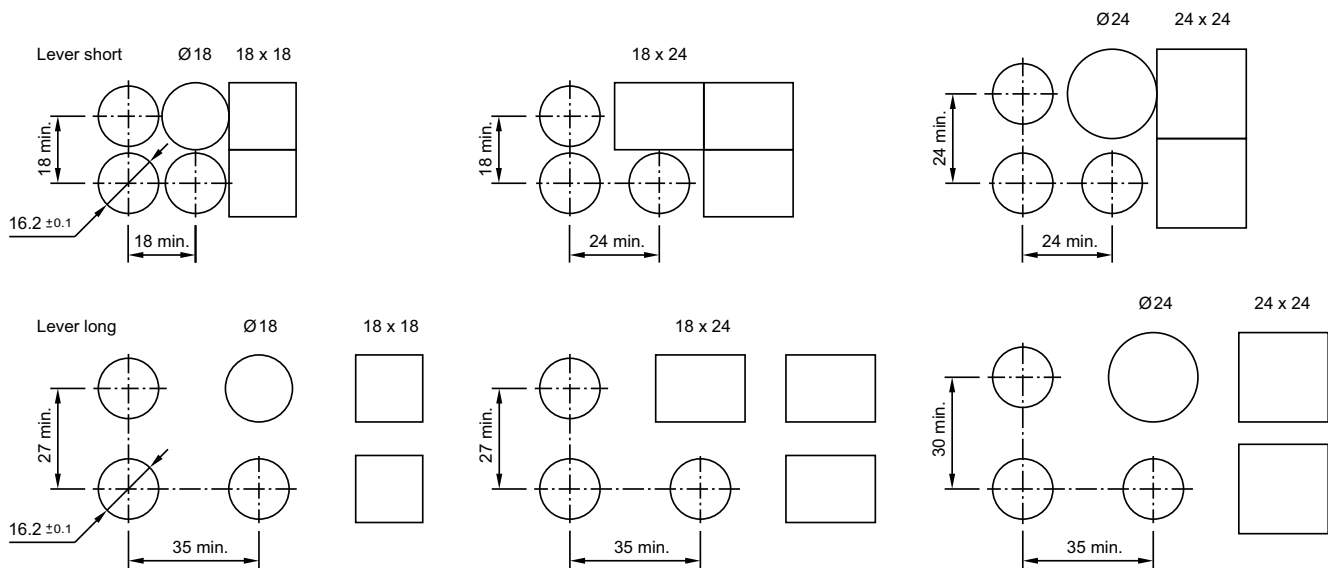
Mounting dimensions

1 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 3 positions 45 mm page 28



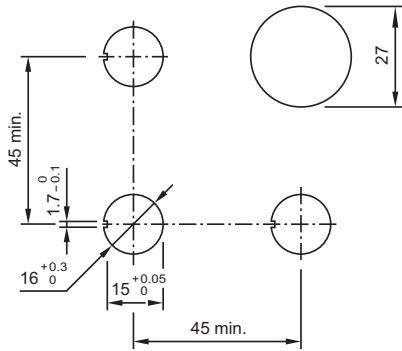
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2 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 3 positions 45 mm page 28

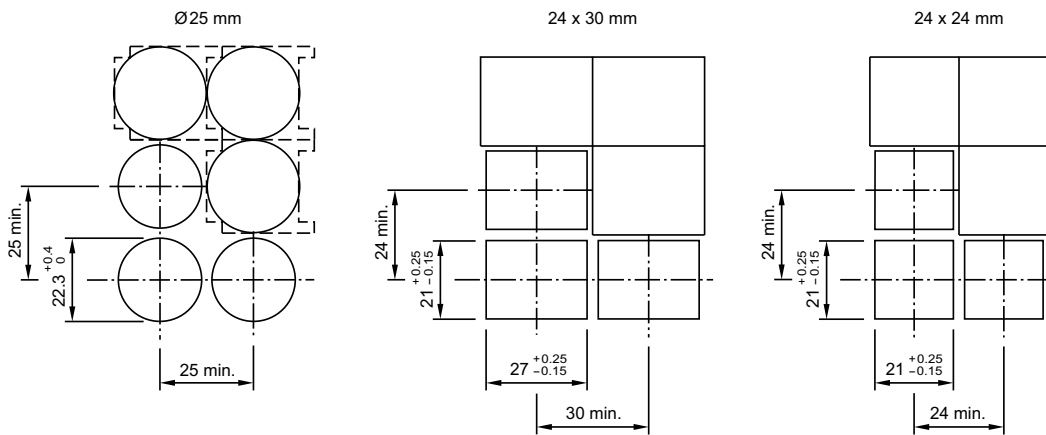


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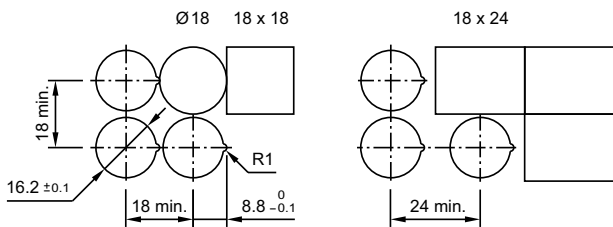
3 Emergency-stop pushbutton, foolproof EN IEC 60947-5-5 page 15



4 Indicator actuator 35 mm, flush mounting page 39 | Indicator actuator 30 - 70 mm, flush mounting page 39 | Illuminated pushbutton actuator 35 mm, flush mounting page 40 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41 | Keylock switch actuator 2 positions 45 mm, flush mounting page 42 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45 | Keylock switch actuator 3 positions 45 mm, flush mounting page 47

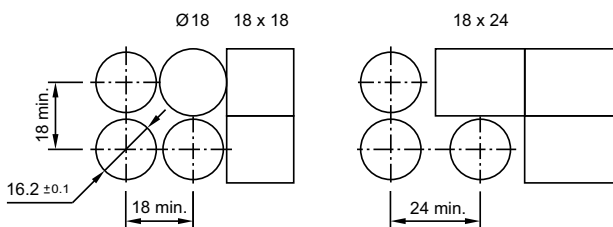


5 Indicator actuator 35 mm page 10 | Illuminated pushbutton actuator 35 mm page 11



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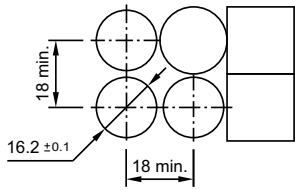
6 Indicator actuator 35 mm page 10 | Illuminated pushbutton actuator 35 mm page 11



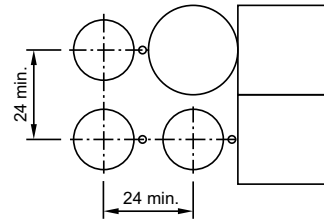
IP 65

7 Indicator actuator 30 - 70 mm page 10 | Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 page 30 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 page 32

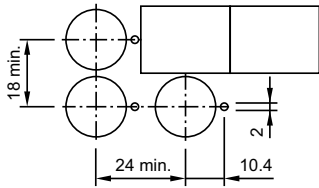
(IP 40) Ø18 18 x 18



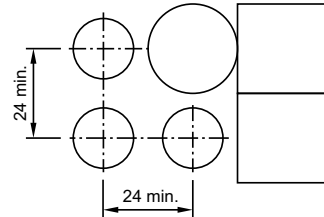
(IP 40) Ø24 24 x 24



(IP 40) 18 x 24

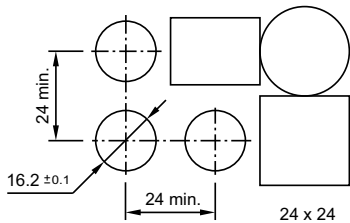


(IP 65) Ø24 24 x 24



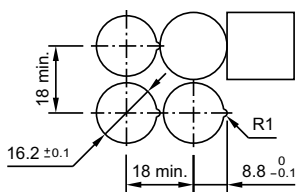
8 Mushroom-head pushbutton actuator 55 - 70 mm page 16

18 x 24 Ø24

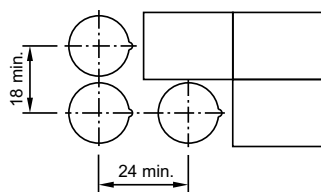


9 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch actuator 3 positions 45 mm page 22 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 page 35 | Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 page 37

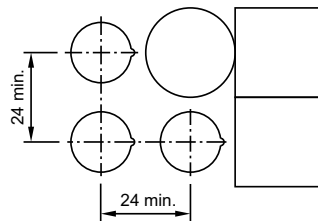
Ø18 18 x 18



18 x 24

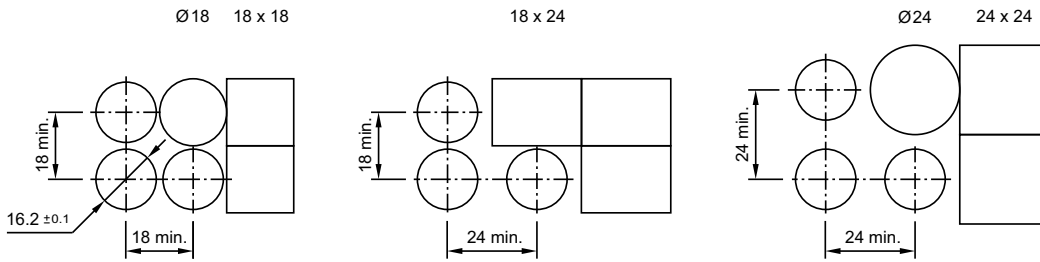


Ø24 24 x 24



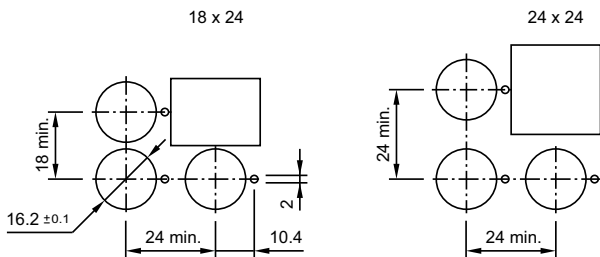
IP 40

10 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch actuator 3 positions 45 mm page 22 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 page 35 | Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 page 37

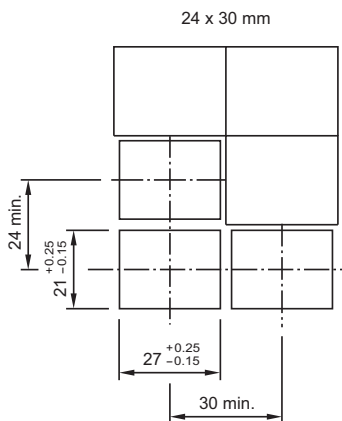


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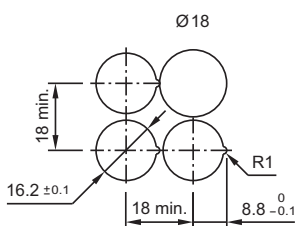
11 Buzzer actuator 30 - 55 mm page 11



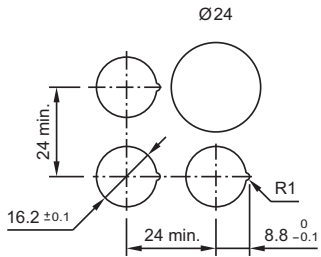
12 Buzzer actuator 30 - 55 mm, flush mounting page 40



13 Illuminated push-pull pushbutton actuator 45 mm page 29

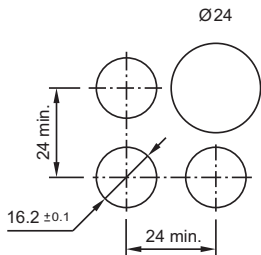


14 Stop pushbutton 55 - 70 mm page 13



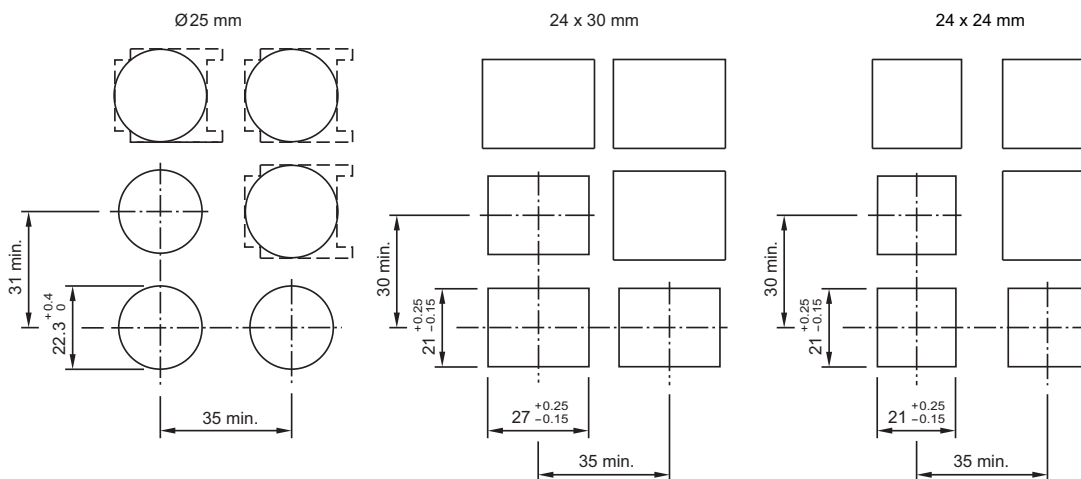
IP 40

15 Stop pushbutton 55 - 70 mm page 13



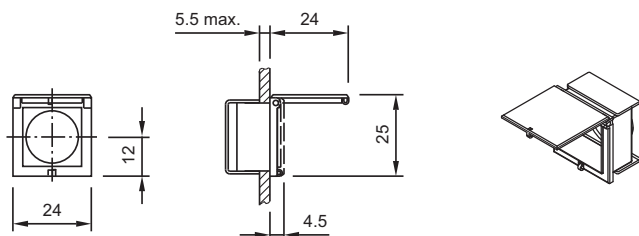
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16 Selector switch actuator 2 positions 45 mm, flush mounting page 48 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51 | Selector switch actuator 3 positions 45 mm, flush mounting page 53

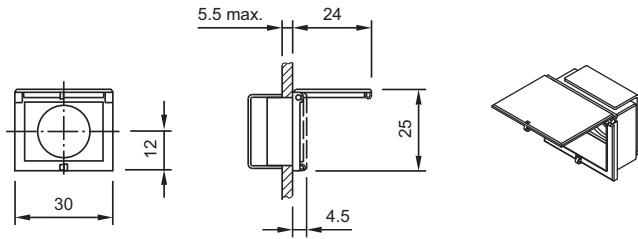


Technical drawing

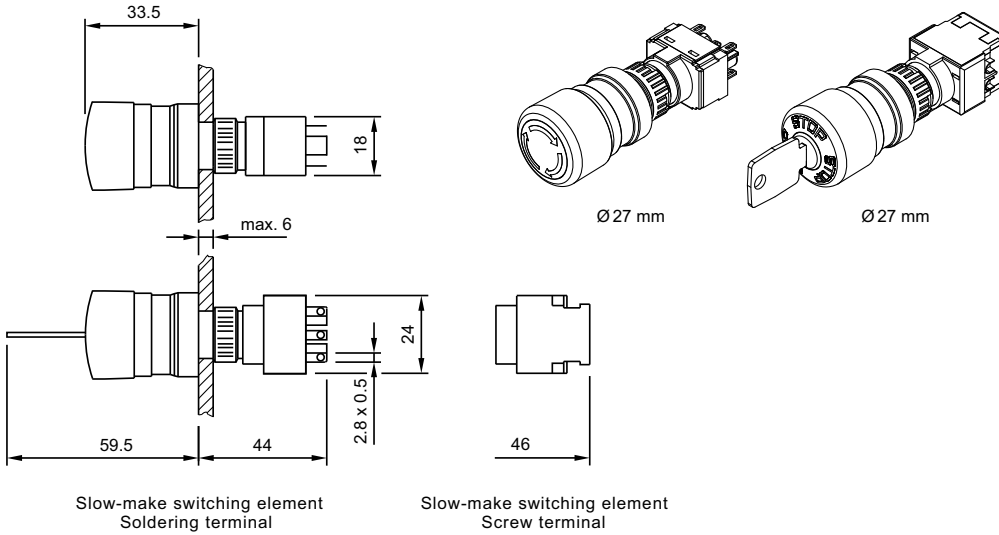
1 Protective cover Illuminated pusbutton | Key lock switch, flush mounting page 63



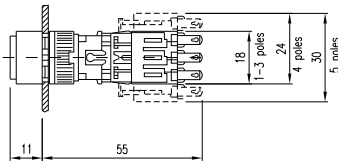
2 Protective cover illuminated pushbutton | Key lock switch, flush mounting page 63



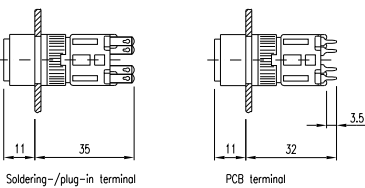
3 Emergency-stop pushbutton, foolproof EN IEC 60947-5-5 page 15



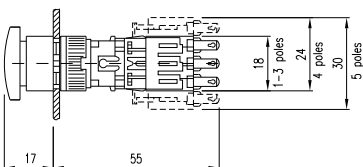
4 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 page 30 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 page 32



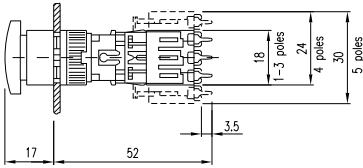
5 Indicator actuator 35 mm page 10 | Illuminated pushbutton actuator 35 mm page 11



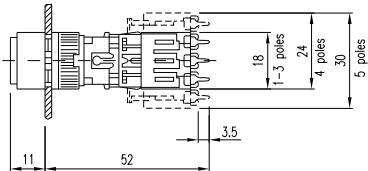
6 Mushroom-head pushbutton actuator 55 - 70 mm page 16



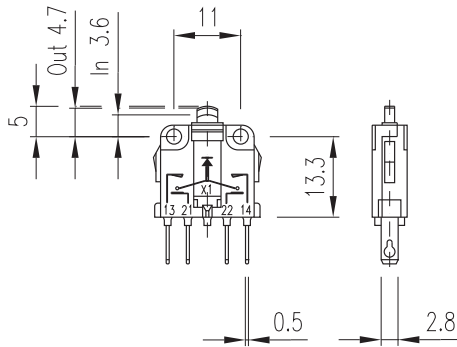
7 Mushroom-head pushbutton actuator 55 - 70 mm page 16



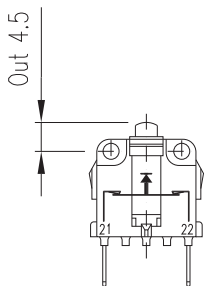
8 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 page 30 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 page 32



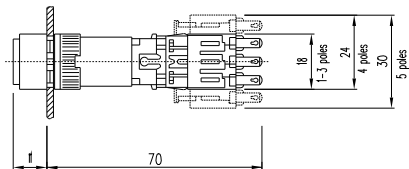
9 Snap-action switching element page 67



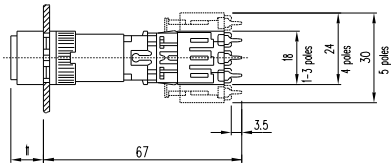
10 Slow-make switching element for Stop pushbutton page 72



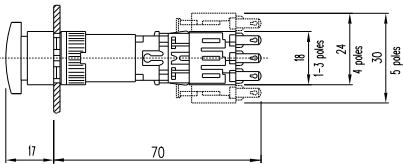
11 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 page 30 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 page 32



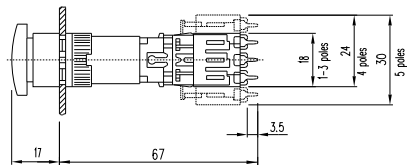
12 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, momentary, switch interlock system variants 1, 3 - 7 page 30 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Release button actuator 55 - 70 mm, momentary, switch interlock system variants 4 - 7 page 32



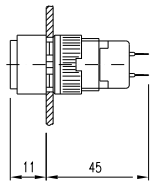
13 Mushroom-head pushbutton actuator 55 - 70 mm page 16



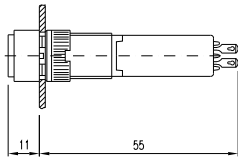
14 Mushroom-head pushbutton actuator 55 - 70 mm page 16



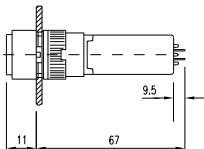
15 Indicator actuator 30 - 70 mm page 10



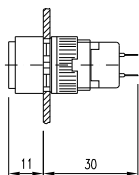
16 Indicator actuator 30 - 70 mm page 10 | Buzzer actuator 30 - 55 mm page 11



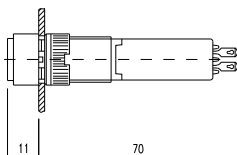
17 Indicator actuator 30 - 70 mm page 10



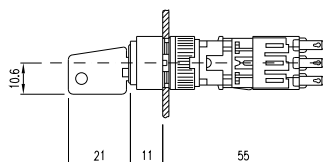
18 Indicator actuator 30 - 70 mm page 10 | Buzzer actuator 30 - 55 mm page 11



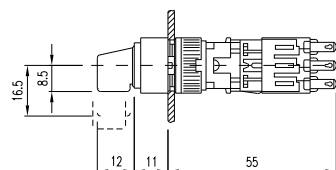
19 Indicator actuator 30 - 70 mm page 10



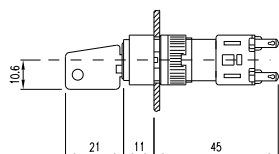
20 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 page 35



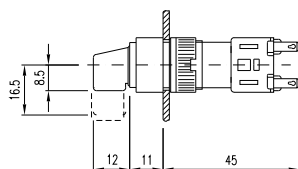
21 Selector switch actuator 2 positions 55 mm page 24



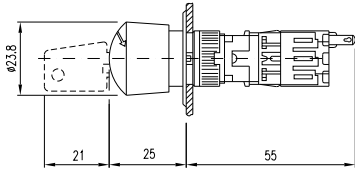
22 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 3 positions 45 mm page 22



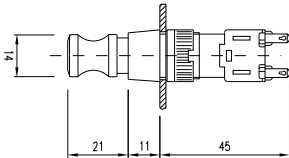
23 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 3 positions 45 mm page 28



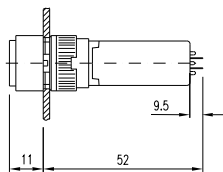
24 Stop pushbutton 55 - 70 mm page 13



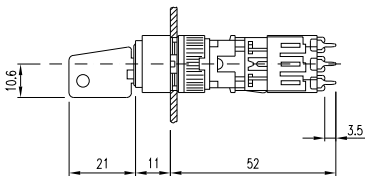
25 Illuminated push-pull pushbutton actuator 45 mm page 29



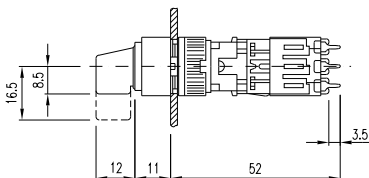
26 Indicator actuator 30 - 70 mm page 10 | Buzzer actuator 30 - 55 mm page 11



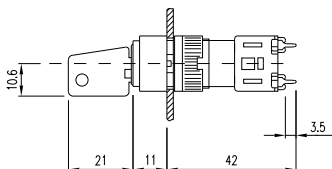
27 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 page 35



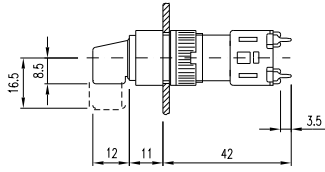
28 Selector switch actuator 2 positions 55 mm page 24



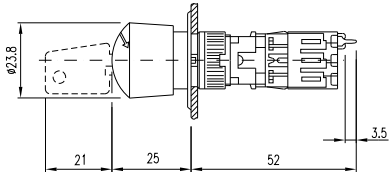
29 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 3 positions 45 mm page 22



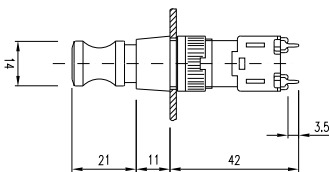
30 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 3 positions 45 mm page 28



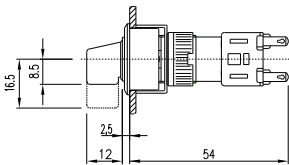
31 Stop pushbutton 55 - 70 mm page 13



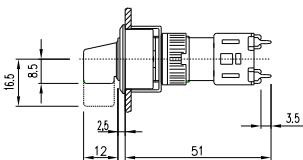
32 Illuminated push-pull pushbutton actuator 45 mm page 29



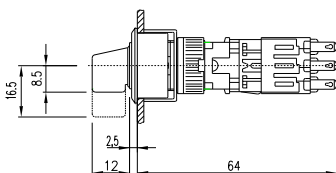
33 Selector switch actuator 2 positions 45 mm, flush mounting page 48 | Selector switch actuator 3 positions 45 mm, flush mounting page 53



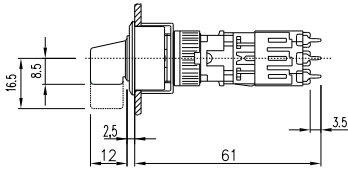
34 Selector switch actuator 2 positions 45 mm, flush mounting page 48 | Selector switch actuator 3 positions 45 mm, flush mounting page 53



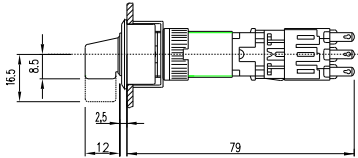
35 Selector switch actuator 2 positions 55 mm, flush mounting page 49



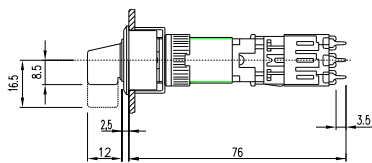
36 Selector switch actuator 2 positions 55 mm, flush mounting page 49



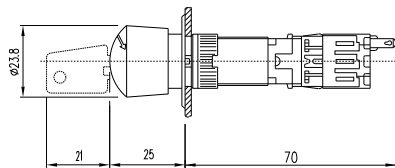
37 Selector switch actuator 2 positions 70 mm, flush mounting page 51



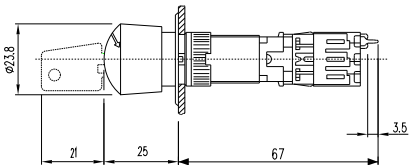
38 Selector switch actuator 2 positions 70 mm, flush mounting page 51



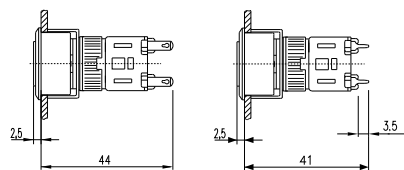
39 Stop pushbutton 55 - 70 mm page 13



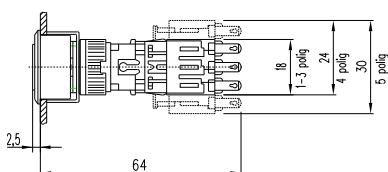
40 Stop pushbutton 55 - 70 mm page 13



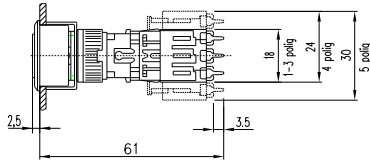
41 Indicator actuator 35 mm, flush mounting page 39 | **Illuminated pushbutton actuator 35 mm, flush mounting** page 40



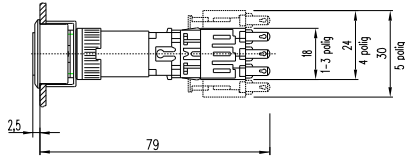
42 Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



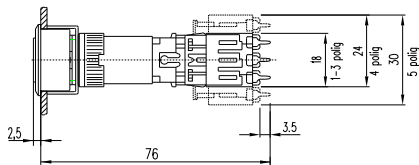
43 Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



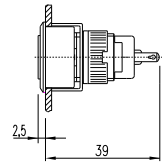
44 Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



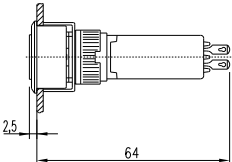
45 Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



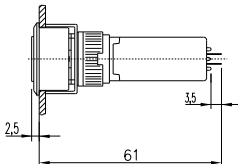
46 Indicator actuator 30 - 70 mm, flush mounting page 39 | **Buzzer actuator 30 - 55 mm, flush mounting** page 40



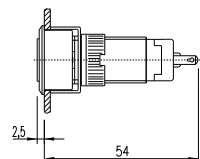
47 Indicator actuator 30 - 70 mm, flush mounting page 39 | **Buzzer actuator 30 - 55 mm, flush mounting** page 40



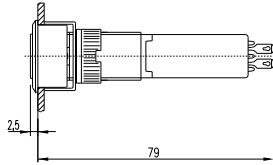
48 Indicator actuator 30 - 70 mm, flush mounting page 39 | **Buzzer actuator 30 - 55 mm, flush mounting** page 40



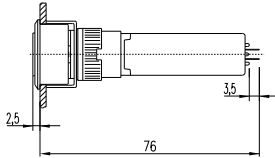
49 Indicator actuator 30 - 70 mm, flush mounting page 39



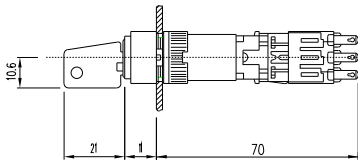
50 Indicator actuator 30 - 70 mm, flush mounting page 39



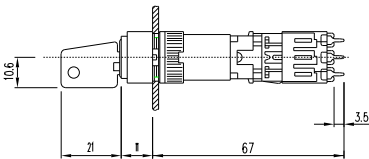
51 Indicator actuator 30 - 70 mm, flush mounting page 39



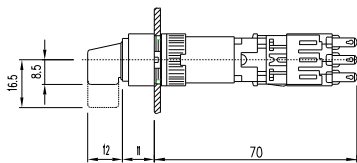
52 Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 page 37



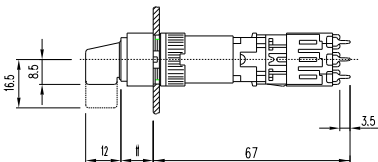
53 Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 page 37



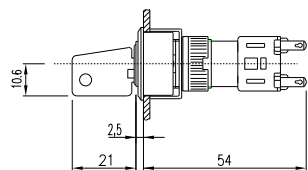
54 Selector switch actuator 2 positions 70 mm page 26



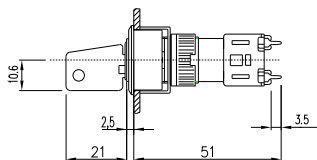
55 Selector switch actuator 2 positions 70 mm page 26



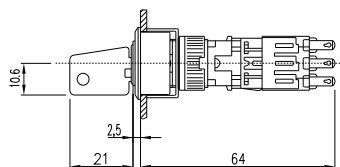
56 Keylock switch actuator 2 positions 45 mm, flush mounting page 42 | **Keylock switch actuator 3 positions 45 mm, flush mounting** page 47



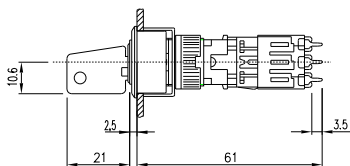
57 Keylock switch actuator 2 positions 45 mm, flush mounting page 42 | **Keylock switch actuator 3 positions 45 mm, flush mounting** page 47



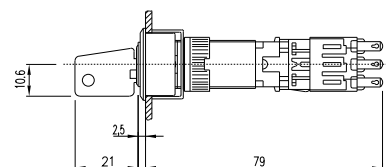
58 Keylock switch actuator 2 positions 55 mm, flush mounting page 43



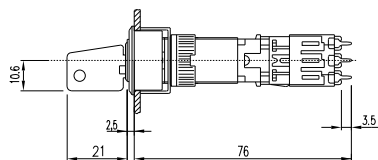
59 Keylock switch actuator 2 positions 55 mm, flush mounting page 43



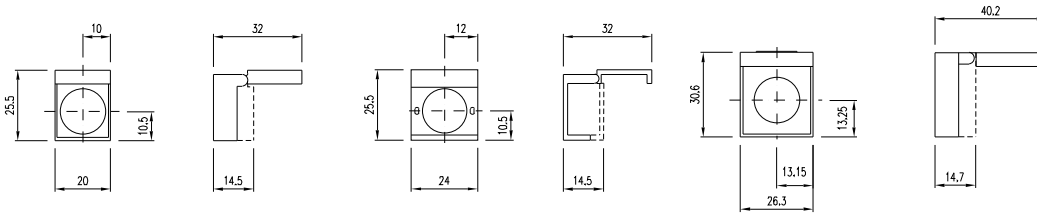
60 Keylock switch actuator 2 positions 70 mm, flush mounting page 45



61 Keylock switch actuator 2 positions 70 mm, flush mounting page 45

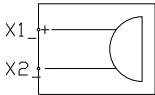


62 Protective cover for buttons 35 mm page 62 | Protective cover for buttons 55 - 70 mm page 63

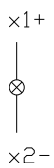


Circuit drawing

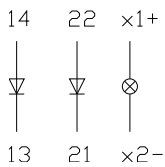
1 Buzzer actuator 30 - 55 mm page 11 | Buzzer actuator 30 - 55 mm, flush mounting page 40



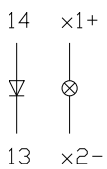
2 Indicator actuator 35 mm page 10 | Indicator actuator 30 - 70 mm page 10 | Indicator actuator 35 mm, flush mounting page 39 | Indicator actuator 30 - 70 mm, flush mounting page 39 | Lamp element block for 35 mm page 66



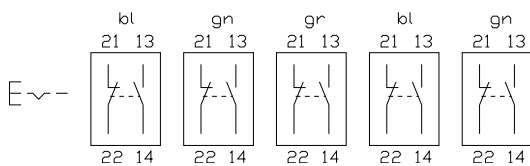
3 Lamp element block for 35 mm page 66



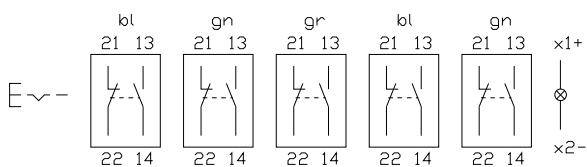
4 Lamp element block for 35 mm page 66



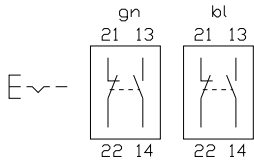
5 Mushroom-head pushbutton actuator 55 - 70 mm page 16



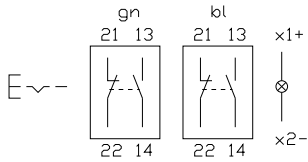
6 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



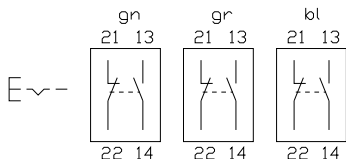
7 Mushroom-head pushbutton actuator 55 - 70 mm page 16



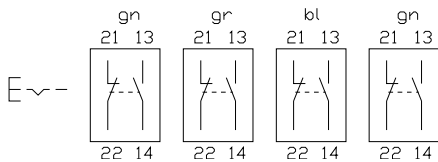
8 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



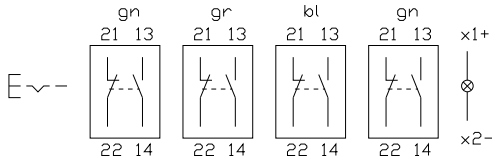
9 Mushroom-head pushbutton actuator 55 - 70 mm page 16



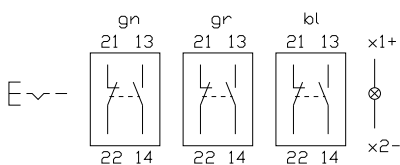
10 Mushroom-head pushbutton actuator 55 - 70 mm page 16



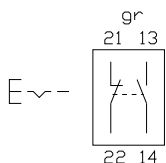
11 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



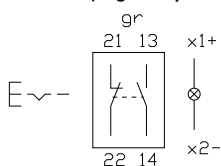
12 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



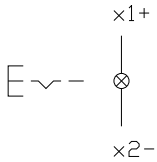
13 Mushroom-head pushbutton actuator 55 - 70 mm page 16



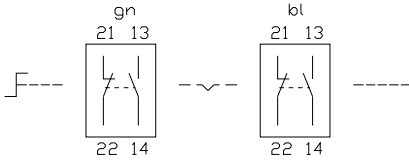
14 Illuminated pushbutton actuator 55 - 70 mm page 12 | Illuminated pushbutton actuator 55 - 70 mm, maintained, switch interlock system variant 2 page 31 | Illuminated pushbutton actuator 55 - 70 mm, flush mounting page 41



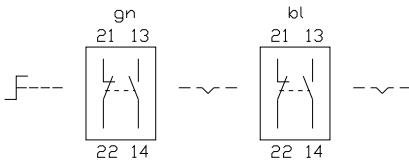
15 Illuminated pushbutton actuator 35 mm page 11 | Illuminated pushbutton actuator 35 mm, flush mounting page 40



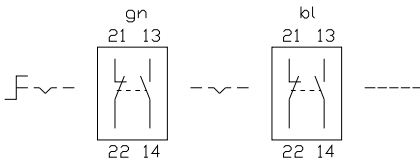
16 Selector switch actuator 3 positions 45 mm page 28 | Selector switch actuator 3 positions 45 mm, flush mounting page 53



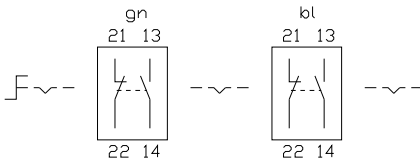
17 Selector switch actuator 3 positions 45 mm page 28 | Selector switch actuator 3 positions 45 mm, flush mounting page 53



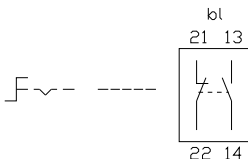
18 Selector switch actuator 3 positions 45 mm page 28 | Selector switch actuator 3 positions 45 mm, flush mounting page 53



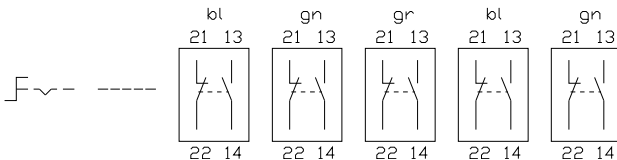
19 Selector switch actuator 3 positions 45 mm page 28 | Selector switch actuator 3 positions 45 mm, flush mounting page 53



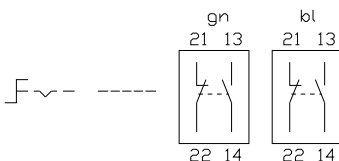
20 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 45 mm, flush mounting page 48



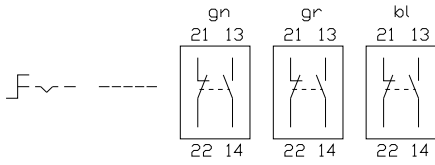
21 Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



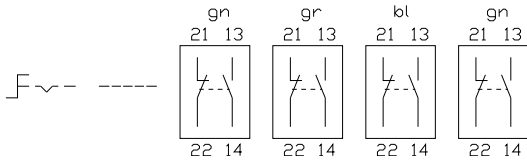
22 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 45 mm, flush mounting page 48 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



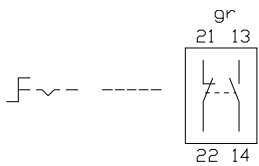
23 Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



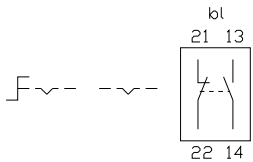
24 Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



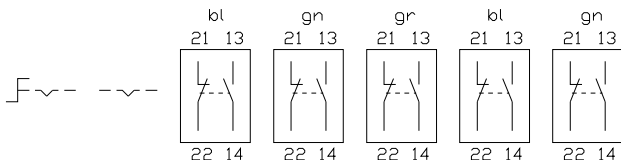
25 Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



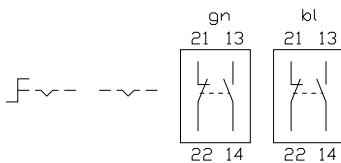
26 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 45 mm, flush mounting page 48



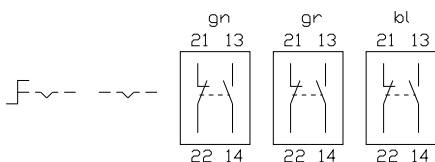
27 Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



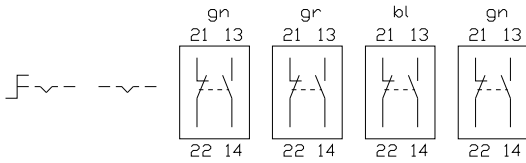
28 Selector switch actuator 2 positions 45 mm page 23 | Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 45 mm, flush mounting page 48 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



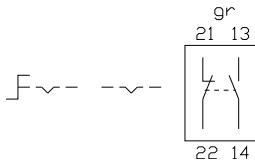
29 Selector switch actuator 2 positions 55 mm page 24 | Selector switch actuator 2 positions 70 mm page 26 | Selector switch actuator 2 positions 55 mm, flush mounting page 49 | Selector switch actuator 2 positions 70 mm, flush mounting page 51



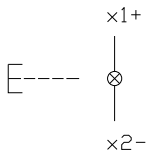
30 Selector switch actuator 2 positions 55 mm page 24 | **Selector switch actuator 2 positions 70 mm** page 26 | **Selector switch actuator 2 positions 55 mm, flush mounting** page 49 | **Selector switch actuator 2 positions 70 mm, flush mounting** page 51



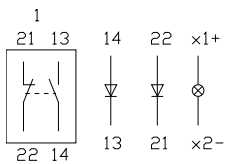
31 Selector switch actuator 2 positions 55 mm page 24 | **Selector switch actuator 2 positions 70 mm** page 26 | **Selector switch actuator 2 positions 55 mm, flush mounting** page 49 | **Selector switch actuator 2 positions 70 mm, flush mounting** page 51



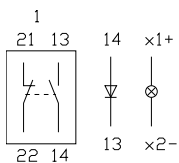
32 Illuminated pushbutton actuator 35 mm page 11 | **Illuminated pushbutton actuator 35 mm, flush mounting** page 40



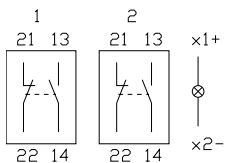
33 Snap-action switching element block for 35 mm page 66



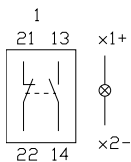
34 Snap-action switching element block for 35 mm page 66



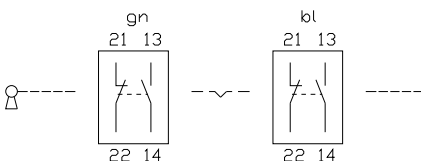
35 Snap-action switching element block for 35 mm page 66



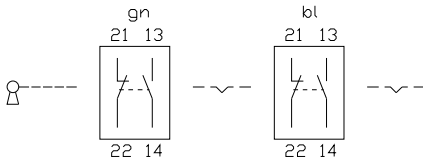
36 Snap-action switching element block for 35 mm page 66



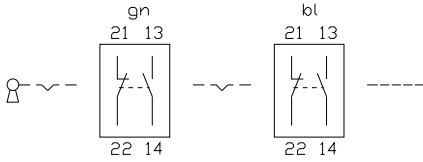
37 Keylock switch actuator 3 positions 45 mm page 22 | **Keylock switch actuator 3 positions 45 mm, flush mounting** page 47



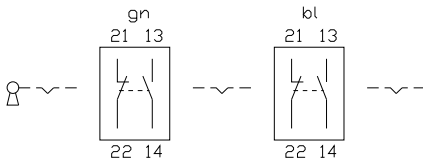
38 Keylock switch actuator 3 positions 45 mm page 22 | Keylock switch actuator 3 positions 45 mm, flush mounting page 47



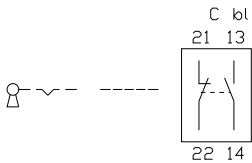
39 Keylock switch actuator 3 positions 45 mm page 22 | Keylock switch actuator 3 positions 45 mm, flush mounting page 47



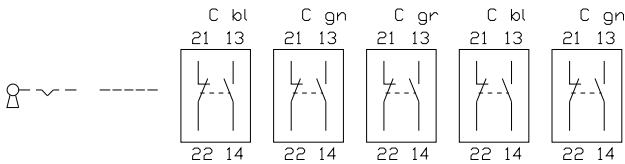
40 Keylock switch actuator 3 positions 45 mm page 22 | Keylock switch actuator 3 positions 45 mm, flush mounting page 47



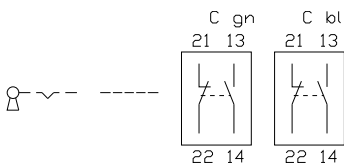
41 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 2 positions 45 mm, flush mounting page 42



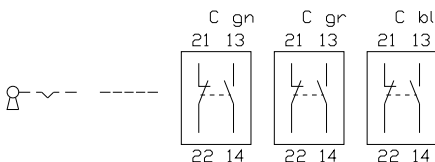
42 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45



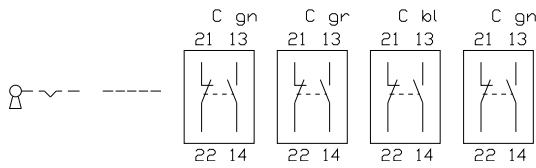
43 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 45 mm, flush mounting page 42 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45



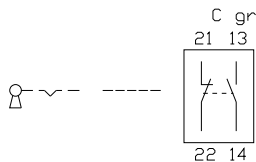
44 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45



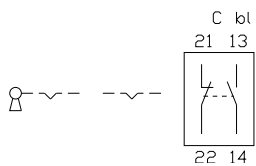
45 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45



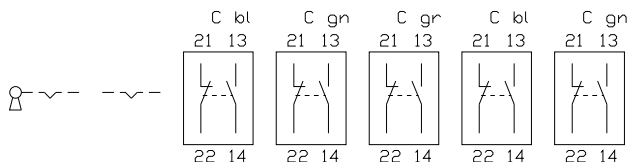
46 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch 2 positions actuator 55 - 70 mm, momentary, switch interlock system function 2 page 33 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45



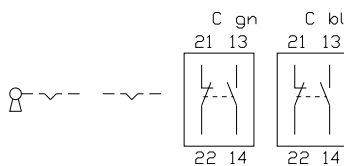
47 Keylock switch actuator 2 positions 45 mm page 17 | Keylock switch actuator 2 positions 45 mm, flush mounting page 42



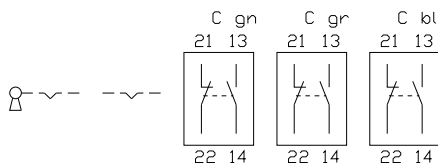
48 Keylock switch actuator 2 positions 55 mm page 18 | Keylock switch actuator 2 positions 70 mm page 20 | Keylock switch actuator 2 positions 55 mm, maintained, switch interlock system functions 1 and 3 page 35 | Keylock switch 2 positions actuator 70 mm, maintained, switch interlock system functions 1 and 3 page 37 | Keylock switch actuator 2 positions 55 mm, flush mounting page 43 | Keylock switch actuator 2 positions 70 mm, flush mounting page 45



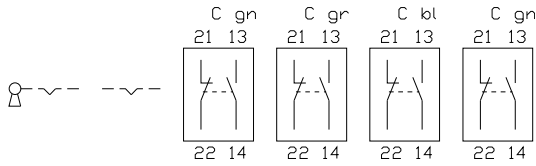
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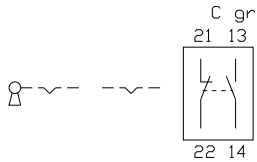
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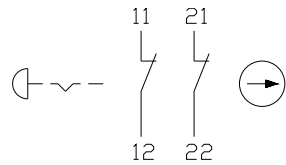
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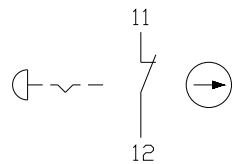
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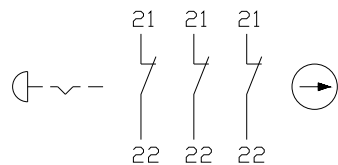
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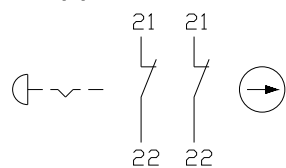
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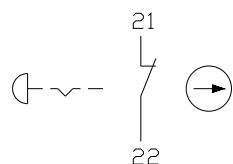
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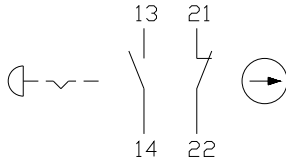
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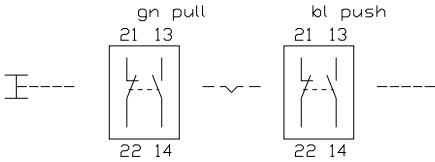
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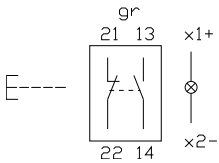
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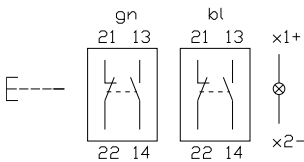
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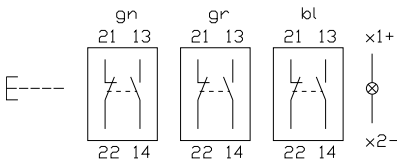
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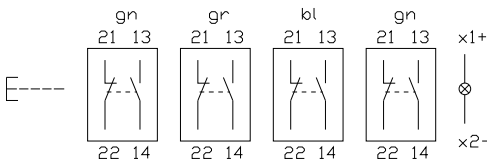
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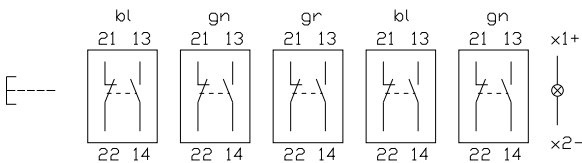
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| 952+2000-WP | 14 | | | | |
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| 953+2000-0P | 14 | | | | |
| 953+2000-W0 | 14 | | | | |
| 953+2000-WP | 14 | | | | |
| 961+2401-00 | 13 | | | | |
| 961+2401-0P | 13 | | | | |
| 961+2401-W0 | 13 | | | | |
| 961+2401-WP | 13 | | | | |
| 962+2401-00 | 13 | | | | |
| 962+2401-0P | 13 | | | | |
| 962+2401-W0 | 13 | | | | |
| 962+2401-WP | 13 | | | | |
| 963+2401-00 | 13 | | | | |
| 963+2401-0P | 13 | | | | |
| 963+2401-W0 | 13 | | | | |
| 963+2401-WP | 13 | | | | |
| 970-.000-00 | 11 | | | | |
| 970-.000-00 | 40 | | | | |
| 970-.000-0P | 11 | | | | |
| 970-.000-0P | 40 | | | | |
| 970-.000-K0 | 11 | | | | |
| 970-.000-K0 | 40 | | | | |
| 970-0006-00 | 60 | | | | |
| 970-0012-00 | 60 | | | | |
| 970-0024-00 | 60 | | | | |
| 970-5006-00 | 60 | | | | |
| 970-5012-00 | 60 | | | | |
| 970-5024-00 | 60 | | | | |
| 970-6006-00 | 60 | | | | |
| 970-6012-00 | 60 | | | | |
| 970-6024-00 | 60 | | | | |
| 970-9006-00 | 60 | | | | |
| 970-9012-00 | 60 | | | | |
| 970-9024-00 | 60 | | | | |
| 981-.000-00 | 30 | | | | |
| 981-.000-0P | 30 | | | | |
| 982-.000-00 | 30 | | | | |
| 982-.000-0P | 30 | | | | |
| 983-.000-00 | 30 | | | | |
| 983-.000-0P | 30 | | | | |
| 984-.000-00 | 30 | | | | |
| 984-.000-0P | 30 | | | | |
| 985-.000-00 | 30 | | | | |
| 985-.000-0P | 30 | | | | |
| 990-.000-00 | 10 | | | | |
| 990-.000-00 | 39 | | | | |
| 990-.000-0P | 10 | | | | |
| 990-.000-0P | 39 | | | | |
| 990-.000-K0 | 10 | | | | |
| 990-.000-K0 | 39 | | | | |

| | |
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ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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