

## Index

### Series Swisstac

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## SWISSTAC - Three crucial advantages!

Easy storage in minimum space

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

## All connections on one plane

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

## Ideal for switch interlock systems

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

## CE

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

## General information

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

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

## Construction

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

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

1.2 W.

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

Can be disassembled easily for wiring.

## Marking

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

## Illumination

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

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

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

## Switch position indicator

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

## Keylock switches

Standard lock

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

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

## Emergency stop switch with key to unlock

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

Two keys are supplied per emergency stop switch.

## Emergency Stop Switch, foolproof with key to unlock

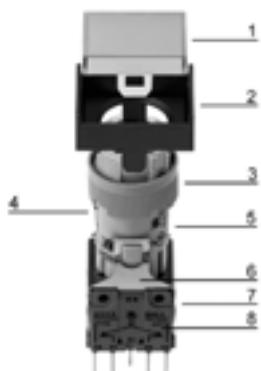
Kaba safety switch. Standard lock number is 1001. Spare keys can be ordered under Type no. 240.4001-00 1001.

2 keys are supplied per emergency stop switches.

All measurements in mm

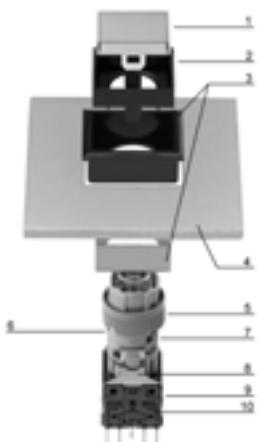
Technical specifications subject to modification.

## illuminated-/pushbutton



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

## pushbutton-/illuminated pushbutton for flush mounting



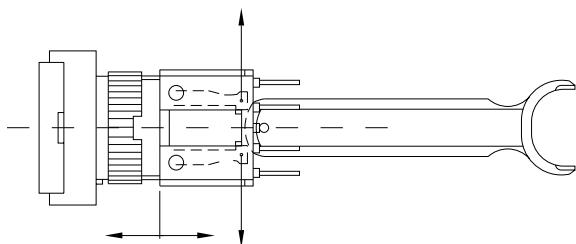
- 1 lens
- 2 front bezel
- 3 front bezel set f. fl. mounting
- 4 front panel
- 5 fixing nut
- 6 spring with pin f. changing from main to mom
- 7 intermediate section
- 8 holder f. switching element
- 9 switching element block
- 10 switching element

## illuminated-/pushbutton 35mm

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

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

To detach terminal block



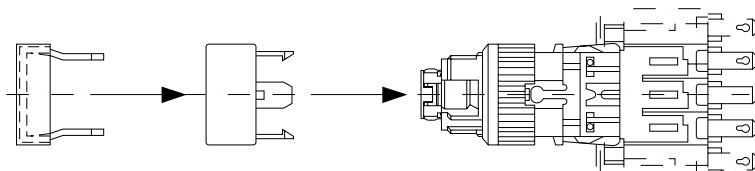
Note: Type-identification on legs of actuator

## illuminated-/pushbutton 55 - 70 mm

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

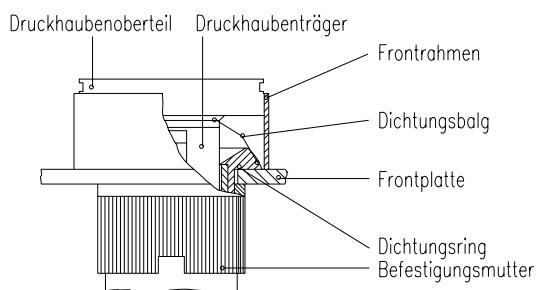
1. Insert switch from back side in fascia/control panel
2. Snap on bezel and tighten fixing nut

Lens                  Bezel                  Illuminated pushbutton



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

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

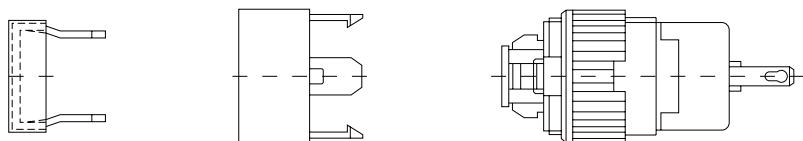


## indicator 30 - 70 mm

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

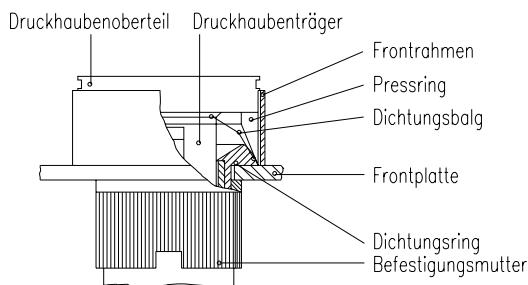
1. Insert indicator from back side in fascia/control panel
2. Snap on bezel and tighten fixing nut

Lens                      Bezel                      Indicator



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

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



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

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

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

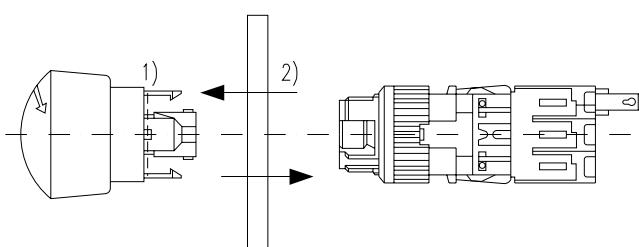
### Important for IP 65

With models to IP 65, the sealing ring 1) is already fitted

This must be removed if the SWISSTAC emergency  
Stop identity plate (IP 65 model) is used.

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

Zero position              Identity plate              Wiring diagram



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

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

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

### Important for IP 65

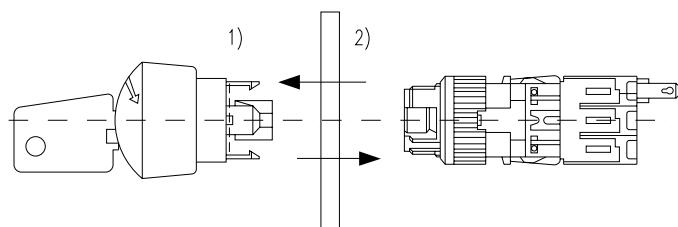
With models to IP 65, the sealing ring1) is already fitted  
This must be removed if the SWISSTAC emergency  
Stop identity plate (IP 65 model) is used.

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

Zero position

Identity plate

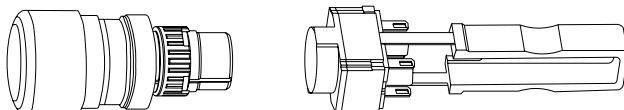
Wiring diagram



## emergency stop switch foolproof

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

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

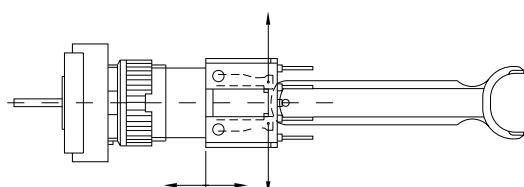


## keylock switch 45mm

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

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

To detach terminal block

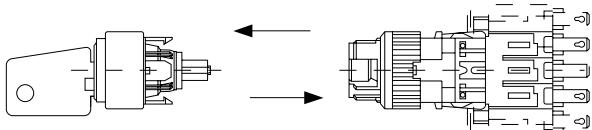


## keylock switch 55 mm

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

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

Zero position



Wiring diagram

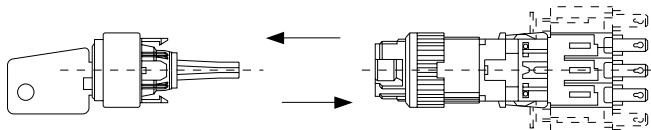
To assemble, the key must be at the zero position, the symbol **0** is at the top, and on the terminal block the circuit diagram is uppermost.

## keylock switch 70 mm

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

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

Zero position



Wiring diagram

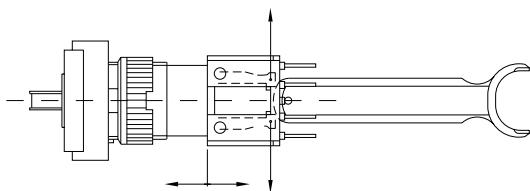
To assemble, the key must be at the zero position, the symbol **0** is at the top, and on the terminal block the circuit diagram is uppermost.

## selector switch 45 mm

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

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

To detach terminal block



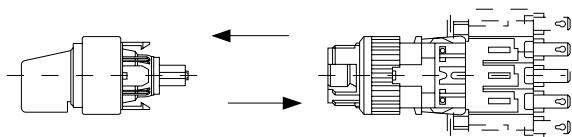
## selector switch 55 mm

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

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

Zero position

Wiring diagram



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

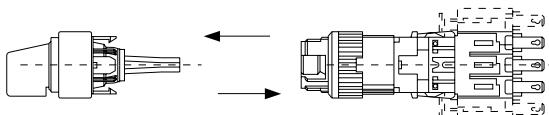
## selector switch 70 mm

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

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

Zero position

Wiring diagram



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

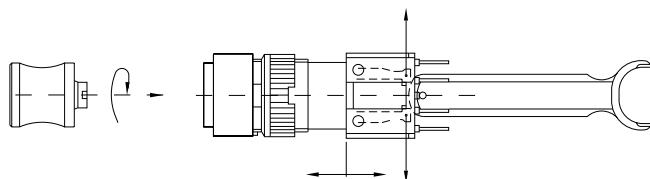
## push pull illuminated switch

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

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

Push-Pull knob

To detach terminal block

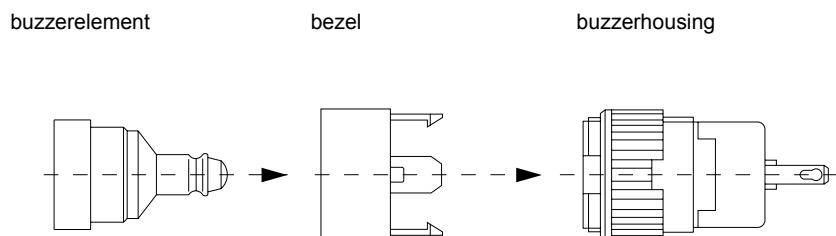


Push-pull knob can be mounted in only one position. Zero position

## buzzer 30 - 55 mm

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

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



## indicator actuator 35 mm



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

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

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

## indicator 30 - 70 mm

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



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

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

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

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

## pushbutton-/illuminated pushbutton actuator 35 mm



☒ lens for 35 mm page 622

☒ filament lamp MG T 1 3/4 page 634

☒ LED MG T 1 3/4 page 634

☒ snap-action switching element block for 35 mm page 631

	degree of pro- tection	switching action				circuit drawing	technical drawing	mounting dimensions	component layout	
pushbutton-/illuminated pushbutton actuator 35 mm lampholder MG T 1 3/4	IP 40	M	680-6000-00	680-4000-00	680-2000-00	2	1	1	1	0,004
		MA	600-6000-00	600-4000-00	600-2000-00	3	1	1	1	0,004
	IP 65	M	680-6000-W0	680-4000-W0	680-2000-W0	2	1	2	1	0,005
		MA	600-6000-W0	600-4000-W0	600-2000-W0	3	1	2	1	0,005

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

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

# Pushbuttons for standard mounting

**Swisstac**

## illuminated-/pushbutton 55 - 70 mm

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



🛒 lens page 623

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

🛒 filament lamp MG T 1 3/4 page 634

🛒 filament lamp T 5.5 page 634

🛒 LED T 5.5 page 635

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

contacts : normally closed = NC, normally open = NO

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

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

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

## emergency stop switch 55 - 70 mm



label for emergency stop switch page 636

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

Continued on next page

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

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

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

hint:

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

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

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

## emergency stop switch foolproof 41 mm

according to EN 418



label for emergency stop switch page 636

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

contacts : 1 normally closed = 1 NC, normally closed = NC, normally open = NO

connection method : soldering-/plug-in terminal = -

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

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

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



mushroom-head cap page 625

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

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

contacts : normally closed = NC, normally open = NO

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

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

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

## keylock switch 2 positions 45 - 70 mm



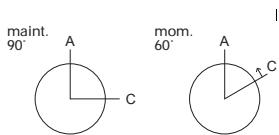
front cap for keylock-/selector switch 2 positions page 625

	degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing	technical drawing	mounting dimensions	component layout	
<b>keylock switch</b> <b>2 positions 45 - 70 mm</b> standard lock B2 300, other lock numbers on request	IP 40	42 mm	1 NC + 1 NO	M	P	A	<b>781-401-0P</b>	21	21	8	1	0,022
				MA	P	A	<b>771-401-0P</b>	20	21	8	1	0,022
						A+C	<b>761-401-0P</b>	20	21	8	1	0,022
			2 NC + 2 NO	M	P	A	<b>782-401-0P</b>	23	21	8	1	0,023
				MA	P	A	<b>772-401-0P</b>	22	21	8	1	0,023
						A+C	<b>762-401-0P</b>	22	21	8	1	0,023
		45 mm	1 NC + 1 NO	M	-	A	<b>781-401-00</b>	21	22	8		0,022
				MA	-	A	<b>771-401-00</b>	20	22	8		0,022
						A+C	<b>761-401-00</b>	20	22	8		0,022
			2 NC + 2 NO	M	-	A	<b>782-401-00</b>	23	22	8		0,023
				MA	-	A	<b>772-401-00</b>	22	22	8		0,023
						A+C	<b>762-401-00</b>	22	22	8		0,023
		52 mm	1 NC + 1 NO	M	P	A	<b>931-401-0P</b>	25	23	8	1	0,024
				MA	P	A	<b>921-401-0P</b>	24	23	8	1	0,024
						A+C	<b>911-401-0P</b>	24	23	8	1	0,024
			2 NC + 2 NO	M	P	A	<b>932-401-0P</b>	23	23	8	1	0,025
				MA	P	A	<b>922-401-0P</b>	22	23	8	1	0,025
						A+C	<b>912-401-0P</b>	22	23	8	1	0,025
			3 NC + 3 NO	M	P	A	<b>933-401-0P</b>	27	23	8	1	0,026
				MA	P	A	<b>923-401-0P</b>	26	23	8	1	0,026
						A+C	<b>913-401-0P</b>	26	23	8	1	0,026
			4 NC + 4 NO	M	P	A	<b>934-401-0P</b>	29	23	8	1	0,029
				MA	P	A	<b>924-401-0P</b>	28	23	8	1	0,029
						A+C	<b>914-401-0P</b>	28	23	8	1	0,029
			5 NC + 5 NO	M	P	A	<b>935-401-0P</b>	31	23	8	1	0,032
				MA	P	A	<b>925-401-0P</b>	30	23	8	1	0,032
						A+C	<b>915-401-0P</b>	30	23	8	1	0,032

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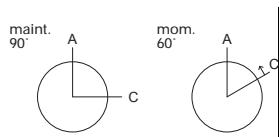
# Pushbuttons for standard mounting

**Swisstac**



	degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing		technical drawing		component layout
								90°	60°	24	dimensions	
<b>keylock switch</b> <b>2 positions</b> 45 - 70 mm standard lock B2 300, other lock numbers on re- quest		55 mm	1 NC + 1 NO	M	-	A	<b>931-401-00</b>	25	24	8		0,024
				MA	-	A	<b>921-401-00</b>	24	24	8		0,024
						A+C	<b>911-401-00</b>	24	24	8		0,024
			2 NC + 2 NO	M	-	A	<b>932-401-00</b>	23	24	8		0,025
				MA	-	A	<b>922-401-00</b>	22	24	8		0,025
						A+C	<b>912-401-00</b>	22	24	8		0,025
			3 NC + 3 NO	M	-	A	<b>933-401-00</b>	27	24	8		0,027
				MA	-	A	<b>923-401-00</b>	26	24	8		0,027
						A+C	<b>913-401-00</b>	26	24	8		0,027
		4 NC + 4 NO	M	-	A	<b>934-401-00</b>	29	24	8		0,030	
				MA	-	A	<b>924-401-00</b>	28	24	8		0,030
						A+C	<b>914-401-00</b>	28	24	8		0,030
		5 NC + 5 NO	M	-	A	<b>935-401-00</b>	31	24	8		0,033	
				MA	-	A	<b>925-401-00</b>	30	24	8		0,033
						A+C	<b>915-401-00</b>	30	24	8		0,033
		67 mm	1 NC + 1 NO	M	P	A	<b>831-401-0P</b>	25	25	8	1	0,026
				MA	P	A	<b>821-401-0P</b>	24	25	8	1	0,026
						A+C	<b>811-401-0P</b>	24	25	8	1	0,026
			2 NC + 2 NO	M	P	A	<b>832-401-0P</b>	23	25	8	1	0,027
				MA	P	A	<b>822-401-0P</b>	22	25	8	1	0,027
						A+C	<b>812-401-0P</b>	22	25	8	1	0,027
			3 NC + 3 NO	M	P	A	<b>833-401-0P</b>	27	25	8	1	0,028
				MA	P	A	<b>823-401-0P</b>	26	25	8	1	0,028
						A+C	<b>813-401-0P</b>	26	25	8	1	0,028
			4 NC + 4 NO	M	P	A	<b>834-401-0P</b>	29	25	8	1	0,031
				MA	P	A	<b>824-401-0P</b>	28	25	8	1	0,031
						A+C	<b>814-401-0P</b>	28	25	8	1	0,031
			5 NC + 5 NO	M	P	A	<b>835-401-0P</b>	31	25	8	1	0,034
				MA	P	A	<b>825-401-0P</b>	30	25	8	1	0,034
						A+C	<b>815-401-0P</b>	30	25	8	1	0,034
		70 mm	1 NC + 1 NO	M	-	A	<b>831-401-00</b>	25	26	8		0,026
				MA	-	A	<b>821-401-00</b>	24	26	8		0,026
						A+C	<b>811-401-00</b>	24	26	8		0,026
			2 NC + 2 NO	M	-	A	<b>832-401-00</b>	23	26	8		0,027
				MA	-	A	<b>822-401-00</b>	22	26	8		0,027
						A+C	<b>812-401-00</b>	22	26	8		0,027
			3 NC + 3 NO	M	-	A	<b>833-401-00</b>	27	26	8		0,029
				MA	-	A	<b>823-401-00</b>	26	26	8		0,029
						A+C	<b>813-401-00</b>	26	26	8		0,029
			4 NC + 4 NO	M	-	A	<b>834-401-00</b>	29	26	8		0,032
				MA	-	A	<b>824-401-00</b>	28	26	8		0,032
						A+C	<b>814-401-00</b>	28	26	8		0,032
			5 NC + 5 NO	M	-	A	<b>835-401-00</b>	31	26	8		0,035
				MA	-	A	<b>825-401-00</b>	30	26	8		0,035
						A+C	<b>815-401-00</b>	30	26	8		0,035

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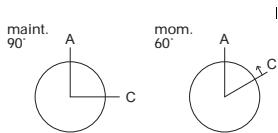


degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing		technical drawing		mounting dimensions		component layout
<b>keylock switch</b> <b>2 positions</b> 45 - 70 mm standard lock B2 300, other lock numbers on re- quest	IP 65	42 mm	1 NC + 1 NO	M	P	A	781-401-WP	21	21	9	1	0,022	
				MA	P	A	771-401-WP	20	21	9	1	0,022	
						A+C	761-401-WP	20	21	9	1	0,022	
			2 NC + 2 NO	M	P	A	782-401-WP	23	21	9	1	0,023	
				MA	P	A	772-401-WP	22	21	9	1	0,023	
						A+C	762-401-WP	22	21	9	1	0,023	
		45 mm	1 NC + 1 NO	M	-	A	781-401-W0	21	22	9		0,022	
				MA	-	A	771-401-W0	20	22	9		0,022	
						A+C	761-401-W0	20	22	9		0,022	
			2 NC + 2 NO	M	-	A	782-401-W0	23	22	9		0,023	
				MA	-	A	772-401-W0	22	22	9		0,023	
						A+C	762-401-W0	22	22	9		0,023	
		52 mm	1 NC + 1 NO	M	P	A	931-401-WP	25	23	9	1	0,024	
				MA	P	A	921-401-WP	24	23	9	1	0,024	
						A+C	911-401-WP	24	23	9	1	0,024	
			2 NC + 2 NO	M	P	A	932-401-WP	23	23	9	1	0,025	
				MA	P	A	922-401-WP	22	23	9	1	0,025	
						A+C	912-401-WP	22	23	9	1	0,025	
			3 NC + 3 NO	M	P	A	933-401-WP	27	23	9	1	0,026	
				MA	P	A	923-401-WP	26	23	9	1	0,026	
						A+C	913-401-WP	26	23	9	1	0,026	
			4 NC + 4 NO	M	P	A	934-401-WP	29	23	9	1	0,029	
				MA	P	A	924-401-WP	28	23	9	1	0,029	
						A+C	914-401-WP	28	23	9	1	0,029	
		55 mm	5 NC + 5 NO	M	P	A	935-401-WP	31	23	9	1	0,032	
				MA	P	A	925-401-WP	30	23	9	1	0,032	
						A+C	915-401-WP	30	23	9	1	0,032	
			1 NC + 1 NO	M	-	A	931-401-W0	25	24	9		0,024	
				MA	-	A	921-401-W0	24	24	9		0,024	
						A+C	911-401-W0	24	24	9		0,024	
			2 NC + 2 NO	M	-	A	932-401-W0	23	24	9		0,025	
				MA	-	A	922-401-W0	22	24	9		0,025	
						A+C	912-401-W0	22	24	9		0,025	
			3 NC + 3 NO	M	-	A	933-401-W0	27	24	9		0,027	
				MA	-	A	923-401-W0	26	24	9		0,027	
						A+C	913-401-W0	26	24	9		0,027	
			4 NC + 4 NO	M	-	A	934-401-W0	29	24	9		0,030	
				MA	-	A	924-401-W0	28	24	9		0,030	
						A+C	914-401-W0	28	24	9		0,030	
			5 NC + 5 NO	M	-	A	935-401-W0	31	24	9		0,033	
				MA	-	A	925-401-W0	30	24	9		0,033	
						A+C	915-401-W0	30	24	9		0,033	

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# Pushbuttons for standard mounting

Swisstac



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

contacts : normally closed = NC, normally open = NO

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

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

other key removable combination on request

hint:

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

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

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

## keylock switch 3 positions 45 mm



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

	degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing		technical drawing		mounting dimensions		component layout	
								mainst. 90°	mom. 60°	A	B	C			
<b>keylock switch 3 positions</b> 45 mm standard lock B2 300, other lock numbers on request	IP 40	42 mm	2 NC + 2 NO	0 - MA - MA	P	B+A+C	<b>722-401-0P</b>	32	21	8	1	0,023			
				M - 0 - M	P	A	<b>732-401-0P</b>	33	21	8	1	0,023			
				M - 0 - MA	P	A+C	<b>752-401-0P</b>	35	21	8	1	0,023			
				MA - 0 - M	P	B+A	<b>742-401-0P</b>	34	21	8	1	0,023			
				MA - 0 - MA	P	B+A+C	<b>712-401-0P</b>	32	21	8	1	0,023			
	IP 40	45 mm	2 NC + 2 NO	0 - MA - MA	-	B+A+C	<b>722-401-00</b>	32	22	8		0,023			
				M - 0 - M	-	A	<b>732-401-00</b>	33	22	8		0,023			
				M - 0 - MA	-	A+C	<b>752-401-00</b>	35	22	8		0,023			
				MA - 0 - M	-	B+A	<b>742-401-00</b>	34	22	8		0,023			
				MA - 0 - MA	-	B+A+C	<b>712-401-00</b>	32	22	8		0,023			
	IP 65	42 mm	2 NC + 2 NO	0 - MA - MA	P	B+A+C	<b>722-401-WP</b>	32	21	9	1	0,023			
				M - 0 - M	P	A	<b>732-401-WP</b>	33	21	9	1	0,023			
				M - 0 - MA	P	A+C	<b>752-401-WP</b>	35	21	9	1	0,023			
				MA - 0 - M	P	B+A	<b>742-401-WP</b>	34	21	9	1	0,023			
				MA - 0 - MA	P	B+A+C	<b>712-401-WP</b>	32	21	9	1	0,023			
	IP 65	45 mm	2 NC + 2 NO	0 - MA - MA	-	B+A+C	<b>722-401-W0</b>	32	22	9		0,023			
				M - 0 - M	-	A	<b>732-401-W0</b>	33	22	9		0,023			
				M - 0 - MA	-	A+C	<b>752-401-W0</b>	35	22	9		0,023			
				MA - 0 - M	-	B+A	<b>742-401-W0</b>	34	22	9		0,023			
				MA - 0 - MA	-	B+A+C	<b>712-401-W0</b>	32	22	9		0,023			

contacts : normally closed = NC, normally open = NO

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

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

other key removable combination on request

hint:

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

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

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

## selector switch 2 positions 45 - 70 mm

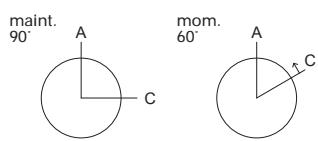


🛒 front cap for keylock-/selector switch 2 positions page 625

🛒 lever page 627

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

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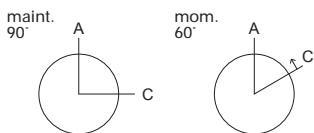


	degree of protection	mounting depth	contacts	switching action	connection method	part no.	circuit drawing	technical drawing	mounting dimensions	component layout	
<b>selector switch 2 positions</b> 45 - 70 mm	IP 40	70 mm	1 NC + 1 NO	M -	831-700-00	41	32	10		0,015	
				MA -	811-700-00	40	32	10		0,015	
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

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# Pushbuttons for standard mounting

**Swisstac**



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

contacts : normally closed = NC, normally open = NO

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

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

hint:

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

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

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

## selector switch 3 positions 45 mm



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

lever page 627

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

contacts : normally closed = NC, normally open = NO

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

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

hint:

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

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

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

## buzzer 30 - 55 mm



buzzer element page 627

front bezel for buzzer 30 - 55 mm page 628

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

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

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

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

## push-pull illuminated switch 45 mm



push-pull knob page 627

filament lamp MG T 1 3/4 page 634

LED MG T 1 3/4 page 634

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

contacts : normally closed = NC, normally open = NO

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

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

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

## indicator actuator 41-44 mm for flush mounting



☒ lens for 35 mm page 622

☒ front bezel-set for flush mounting page 628

☒ filament lamp MG T 1 3/4 page 634

☒ LED MG T 1 3/4 page 634

☒ lamp element block for 35 mm page 632

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

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

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## indicator for flush mounting 39 - 79 mm

protection degree IP 40



lens page 623

front bezel for indicator 39 - 79 mm page 627

front bezel-set for flush mounting page 628

filament lamp MG T 1 3/4 page 634

LED MG T 1 3/4 page 634

filament lamp T 5.5 page 634

LED T 5.5 page 635

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

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

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

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



lens page 623

filament lamp MG T 1 3/4 page 634

LED MG T 1 3/4 page 634

snap-action switching element block for 35 mm page 631

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

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

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

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

protection degree IP 40



lens page 623

front bezel for illuminated-/pushbutton 61 - 79 mm page 627

front bezel-set for flush mounting page 628

filament lamp MG T 1 3/4 page 634

LED MG T 1 3/4 page 634

filament lamp T 5.5 page 634

LED T 5.5 page 635

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

contacts : normally closed = NC, normally open = NO

switching action: (changeable to momentary, reversible)

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

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

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



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

front bezel-set for flush mounting page 628

degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing		technical drawing		mounting dimensions	component layout
							maint. 90°	mom. 60°	A	C		
<b>keylock switch 2 positions</b> for flush mounting 51 - 79 mm	IP 40 51 mm	1 NC + 1 NO	M	P	A	<b>781-401-0P</b>	21	46	14	1	0,022	
			MA	P	A	<b>771-401-0P</b>	20	46	14	1	0,022	
					A+C	<b>761-401-0P</b>	20	46	14	1	0,022	
		2 NC + 2 NO	M	P	A	<b>782-401-0P</b>	23	46	14	1	0,023	
			MA	P	A	<b>772-401-0P</b>	22	46	14	1	0,023	
					A+C	<b>762-401-0P</b>	22	46	14	1	0,023	
	54 mm	1 NC + 1 NO	M	-	A	<b>781-401-00</b>	21	47	14		0,022	
			MA	-	A	<b>771-401-00</b>	20	47	14		0,022	
					A+C	<b>761-401-00</b>	20	47	14		0,022	
		2 NC + 2 NO	M	-	A	<b>782-401-00</b>	23	47	14		0,023	
			MA	-	A	<b>772-401-00</b>	22	47	14		0,023	
					A+C	<b>762-401-00</b>	22	47	14		0,023	
	61 mm	1 NC + 1 NO	M	P	A	<b>931-401-0P</b>	25	48	14	1	0,024	
			MA	P	A	<b>921-401-0P</b>	24	48	14	1	0,024	
					A+C	<b>911-401-0P</b>	24	48	14	1	0,024	
		2 NC + 2 NO	M	P	A	<b>932-401-0P</b>	23	48	14	1	0,025	
			MA	P	A	<b>922-401-0P</b>	22	48	14	1	0,025	
					A+C	<b>912-401-0P</b>	22	48	14	1	0,025	
		3 NC + 3 NO	M	P	A	<b>933-401-0P</b>	27	48	14	1	0,026	
			MA	P	A	<b>923-401-0P</b>	26	48	14	1	0,026	
					A+C	<b>913-401-0P</b>	26	48	14	1	0,026	
		4 NC + 4 NO	M	P	A	<b>934-401-0P</b>	29	48	14	1	0,029	
			MA	P	A	<b>924-401-0P</b>	28	48	14	1	0,029	
					A+C	<b>914-401-0P</b>	28	48	14	1	0,029	
		5 NC + 5 NO	M	P	A	<b>935-401-0P</b>	31	48	14	1	0,032	
			MA	P	A	<b>925-401-0P</b>	30	48	14	1	0,032	
					A+C	<b>915-401-0P</b>	30	48	14	1	0,032	

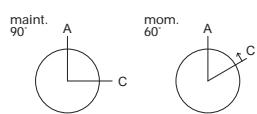
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# Pushbuttons for Flush mounting

**Swisstac**

	degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing		technical drawing	mounting dimensions	component layout
								90°	60°			
<b>keylock switch 2 positions</b> for flush mounting 51 - 79 mm	IP 40	64 mm	1 NC + 1 NO	M	-	A	<b>931-401-00</b>	25	49	14	1	0,024
				MA	-	A	<b>921-401-00</b>	24	49	14	1	0,024
						A+C	<b>911-401-00</b>	24	49	14	1	0,024
			2 NC + 2 NO	M	-	A	<b>932-401-00</b>	23	49	14	1	0,025
				MA	-	A	<b>922-401-00</b>	22	49	14	1	0,025
						A+C	<b>912-401-00</b>	22	49	14	1	0,025
			3 NC + 3 NO	M	-	A	<b>933-401-00</b>	27	49	14	1	0,027
				MA	-	A	<b>923-401-00</b>	26	49	14	1	0,027
						A+C	<b>913-401-00</b>	26	49	14	1	0,027
			4 NC + 4 NO	M	-	A	<b>934-401-00</b>	29	49	14	1	0,030
				MA	-	A	<b>924-401-00</b>	28	49	14	1	0,030
						A+C	<b>914-401-00</b>	28	49	14	1	0,030
			5 NC + 5 NO	M	-	A	<b>935-401-00</b>	31	49	14	1	0,033
				MA	-	A	<b>925-401-00</b>	30	49	14	1	0,033
						A+C	<b>915-401-00</b>	30	49	14	1	0,033
		76 mm	1 NC + 1 NO	M	P	A	<b>831-401-0P</b>	25	50	14	1	0,026
				MA	P	A	<b>821-401-0P</b>	24	50	14	1	0,026
						A+C	<b>811-401-0P</b>	24	50	14	1	0,026
			2 NC + 2 NO	M	P	A	<b>832-401-0P</b>	23	50	14	1	0,027
				MA	P	A	<b>822-401-0P</b>	22	50	14	1	0,027
						A+C	<b>812-401-0P</b>	22	50	14	1	0,027
			3 NC + 3 NO	M	P	A	<b>833-401-0P</b>	27	50	14	1	0,028
				MA	P	A	<b>823-401-0P</b>	26	50	14	1	0,028
						A+C	<b>813-401-0P</b>	26	50	14	1	0,028
			4 NC + 4 NO	M	P	A	<b>834-401-0P</b>	29	50	14	1	0,031
				MA	P	A	<b>824-401-0P</b>	28	50	14	1	0,031
						A+C	<b>814-401-0P</b>	28	50	14	1	0,031
			5 NC + 5 NO	M	P	A	<b>835-401-0P</b>	31	50	14	1	0,034
				MA	P	A	<b>825-401-0P</b>	30	50	14	1	0,034
						A+C	<b>815-401-0P</b>	30	50	14	1	0,034
		79 mm	1 NC + 1 NO	M	-	A	<b>831-401-00</b>	25	51	14	1	0,026
				MA	-	A	<b>821-401-00</b>	24	51	14	1	0,026
						A+C	<b>811-401-00</b>	24	51	14	1	0,026
			2 NC + 2 NO	M	-	A	<b>832-401-00</b>	23	51	14	1	0,027
				MA	-	A	<b>822-401-00</b>	22	51	14	1	0,027
						A+C	<b>812-401-00</b>	22	51	14	1	0,027
			3 NC + 3 NO	M	-	A	<b>833-401-00</b>	27	51	14	1	0,029
				MA	-	A	<b>823-401-00</b>	26	51	14	1	0,029
						A+C	<b>813-401-00</b>	26	51	14	1	0,029
			4 NC + 4 NO	M	-	A	<b>834-401-00</b>	29	51	14	1	0,032
				MA	-	A	<b>824-401-00</b>	28	51	14	1	0,032
						A+C	<b>814-401-00</b>	28	51	14	1	0,032
			5 NC + 5 NO	M	-	A	<b>835-401-00</b>	31	51	14	1	0,035
				MA	-	A	<b>825-401-00</b>	30	51	14	1	0,035
						A+C	<b>815-401-00</b>	30	51	14	1	0,035
		IP 65	1 NC + 1 NO	M	P	A	<b>781-401-WP</b>	21	46	14	1	0,022
				MA	P	A	<b>771-401-WP</b>	20	46	14	1	0,022
						A+C	<b>761-401-WP</b>	20	46	14	1	0,022
			2 NC + 2 NO	M	P	A	<b>782-401-WP</b>	23	46	14	1	0,023
				MA	P	A	<b>772-401-WP</b>	22	46	14	1	0,023
						A+C	<b>762-401-WP</b>	22	46	14	1	0,023

Continued on next page



			contacts	switching action	connection method	key removable in	part no.	circuit drawing	technical drawing	mounting dimensions	component layout
<b>keylock switch 2 positions</b> for flush mounting 51 - 79 mm	IP 65	54 mm	1 NC + 1 NO	M - A		781-401-W0	21	47	14		0,022
				MA - A		771-401-W0	20	47	14		0,022
					A+C	761-401-W0	20	47	14		0,022
		61 mm	2 NC + 2 NO	M - A		782-401-W0	23	47	14		0,023
				MA - A		772-401-W0	22	47	14		0,023
					A+C	762-401-W0	22	47	14		0,023
		64 mm	1 NC + 1 NO	M P A		931-401-WP	25	48	14	1	0,024
				MA P A		921-401-WP	24	48	14	1	0,024
					A+C	911-401-WP	24	48	14	1	0,024
		76 mm	2 NC + 2 NO	M P A		932-401-WP	23	48	14	1	0,025
				MA P A		922-401-WP	22	48	14	1	0,025
					A+C	912-401-WP	22	48	14	1	0,025
		64 mm	3 NC + 3 NO	M P A		933-401-WP	27	48	14	1	0,026
				MA P A		923-401-WP	26	48	14	1	0,026
					A+C	913-401-WP	26	48	14	1	0,026
		76 mm	4 NC + 4 NO	M P A		934-401-WP	29	48	14	1	0,029
				MA P A		924-401-WP	28	48	14	1	0,029
					A+C	914-401-WP	28	48	14	1	0,029
		76 mm	5 NC + 5 NO	M P A		935-401-WP	31	48	14	1	0,032
				MA P A		925-401-WP	30	48	14	1	0,032
					A+C	915-401-WP	30	48	14	1	0,032
		76 mm	1 NC + 1 NO	M P A		831-401-WP	25	50	14	1	0,026
				MA P A		821-401-WP	24	50	14	1	0,026
					A+C	811-401-WP	24	50	14	1	0,026
		76 mm	2 NC + 2 NO	M P A		832-401-WP	23	50	14	1	0,027
				MA P A		822-401-WP	22	50	14	1	0,027
					A+C	812-401-WP	22	50	14	1	0,027
		76 mm	3 NC + 3 NO	M P A		833-401-WP	27	50	14	1	0,028
				MA P A		823-401-WP	26	50	14	1	0,028
					A+C	813-401-WP	26	50	14	1	0,028
		76 mm	4 NC + 4 NO	M P A		834-401-WP	29	50	14	1	0,031
				MA P A		824-401-WP	28	50	14	1	0,031
					A+C	814-401-WP	28	50	14	1	0,031
		76 mm	5 NC + 5 NO	M P A		835-401-WP	31	50	14	1	0,034
				MA P A		825-401-WP	30	50	14	1	0,034
					A+C	815-401-WP	30	50	14	1	0,034

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# Pushbuttons for Flush mounting

**Swisstac**

	degree of protection	mounting depth	contacts	switching action	connection method	key removable in	part no.	circuit drawing	technical drawing	mounting dimensions	component layout
								90°	60°	51°	45°
<b>keylock switch 2 positions</b> for flush mounting 51 - 79 mm	IP 65	79 mm	1 NC + 1 NO	M	-	A	<b>831-401-W0</b>	25	51	14	0,026
				MA	-	A	<b>821-401-W0</b>	24	51	14	0,026
						A+C	<b>811-401-W0</b>	24	51	14	0,026
			2 NC + 2 NO	M	-	A	<b>832-401-W0</b>	23	51	14	0,027
				MA	-	A	<b>822-401-W0</b>	22	51	14	0,027
						A+C	<b>812-401-W0</b>	22	51	14	0,027
			3 NC + 3 NO	M	-	A	<b>833-401-W0</b>	27	51	14	0,029
				MA	-	A	<b>823-401-W0</b>	26	51	14	0,029
						A+C	<b>813-401-W0</b>	26	51	14	0,029
			4 NC + 4 NO	M	-	A	<b>834-401-W0</b>	29	51	14	0,032
				MA	-	A	<b>824-401-W0</b>	28	51	14	0,032
						A+C	<b>814-401-W0</b>	28	51	14	0,032
			5 NC + 5 NO	M	-	A	<b>835-401-W0</b>	31	51	14	0,035
				MA	-	A	<b>825-401-W0</b>	30	51	14	0,035
						A+C	<b>815-401-W0</b>	30	51	14	0,035

contacts : normally closed = NC, normally open = NO

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

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

other key removable combination on request

hint:

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

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

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

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



front cap for keylock-/selector switch 3 positions 626

front bezel-set for flush mounting page 628

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

contacts : normally closed = NC, normally open = NO

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

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

other key removable combination on request

hint:

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

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

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

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



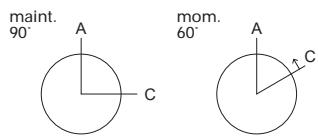
front cap for keylock-/selector switch 2 positions page 625

lever page 627

front bezel-set for flush mounting page 628

	degree of protection	mounting depth	contacts		switching action connection method	part no.	circuit drawing	technical drawing	mounting dimensions	component layout
			maint. 90°	mom. 60°						
<b>selector switch 2 positions</b> for flush mounting 51 - 79 mm	IP 40	51 mm	1 NC + 1 NO	M P	<b>781-700-0P</b>	37	52	15	1	0,011
				MA P	<b>761-700-0P</b>	36	52	15	1	0,011
			2 NC + 2 NO	M P	<b>782-700-0P</b>	39	52	15	1	0,012
				MA P	<b>762-700-0P</b>	38	52	15	1	0,012
		54 mm	1 NC + 1 NO	M -	<b>781-700-00</b>	37	53	15		0,011
				MA -	<b>761-700-00</b>	36	53	15		0,011
			2 NC + 2 NO	M -	<b>782-700-00</b>	39	53	15		0,012
				MA -	<b>762-700-00</b>	38	53	15		0,012
		61 mm	1 NC + 1 NO	M P	<b>931-700-0P</b>	41	54	15	1	0,013
				MA P	<b>911-700-0P</b>	40	54	15	1	0,013
			2 NC + 2 NO	M P	<b>932-700-0P</b>	39	54	15	1	0,014
				MA P	<b>912-700-0P</b>	38	54	15	1	0,014
			3 NC + 3 NO	M P	<b>933-700-0P</b>	43	54	15	1	0,015
				MA P	<b>913-700-0P</b>	42	54	15	1	0,015
			4 NC + 4 NO	M P	<b>934-700-0P</b>	45	54	15	1	0,018
				MA P	<b>914-700-0P</b>	44	54	15	1	0,018
		64 mm	5 NC + 5 NO	M P	<b>935-700-0P</b>	47	54	15	1	0,022
				MA P	<b>915-700-0P</b>	46	54	15	1	0,022
			1 NC + 1 NO	M -	<b>931-700-00</b>	41	55	15		0,013
				MA -	<b>911-700-00</b>	40	55	15		0,013
			2 NC + 2 NO	M -	<b>932-700-00</b>	39	55	15		0,014
				MA -	<b>912-700-00</b>	38	55	15		0,014
			3 NC + 3 NO	M -	<b>933-700-00</b>	43	55	15		0,015
				MA -	<b>913-700-00</b>	42	55	15		0,015
			4 NC + 4 NO	M -	<b>934-700-00</b>	45	55	15		0,019
				MA -	<b>914-700-00</b>	44	55	15		0,019
			5 NC + 5 NO	M -	<b>935-700-00</b>	47	55	15		0,023
				MA -	<b>915-700-00</b>	46	55	15		0,023

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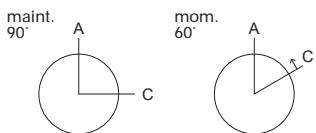


	degree of protection	mounting depth	contacts	switching action	connection method	part no.	circuit drawing	technical drawing	mounting dimensions	component layout	
<b>selector switch 2 positions</b> for flush mounting 51 - 79 mm	IP 65	76 mm	1 NC + 1 NO	M P	831-700-0P	41	56	15	1	0,015	
				MA P	811-700-0P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

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# Pushbuttons for Flush mounting

**Swisstac**



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

contacts : normally closed = NC, normally open = NO

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

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

hint:

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

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

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

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



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

lever page 627

front bezel-set for flush mounting page 628

	degree of protection	mounting depth	contacts	switching action	connection method	part no.	circuit drawing		technical drawing		mounting dimensions	component layout	
							maint. 90°	A B C	mom. 60°	A B C			
<b>selector switch 3 positions</b> for flush mounting 51 - 54 mm	IP 40	51 mm	2 NC + 2 NO	0 - MA - MA	P	<b>722-700-0P</b>	48	52	15	1	0,012		
				M - 0 - M	P	<b>732-700-0P</b>	49	52	15	1	0,012		
				M - 0 - MA	P	<b>752-700-0P</b>	51	52	15	1	0,012		
				MA - 0 - M	P	<b>742-700-0P</b>	50	52	15	1	0,012		
				MA - 0 - MA	P	<b>712-700-0P</b>	48	52	15	1	0,012		
			54 mm	0 - MA - MA	-	<b>722-700-00</b>	48	53	15		0,012		
				M - 0 - M	-	<b>732-700-00</b>	49	53	15		0,012		
				M - 0 - MA	-	<b>752-700-00</b>	51	53	15		0,012		
				MA - 0 - M	-	<b>742-700-00</b>	50	53	15		0,012		
				MA - 0 - MA	-	<b>712-700-00</b>	48	53	15		0,012		
	IP 65	51 mm	2 NC + 2 NO	0 - MA - MA	P	<b>722-700-WP</b>	48	52	15	1	0,012		
				M - 0 - M	P	<b>732-700-WP</b>	49	52	15	1	0,012		
				M - 0 - MA	P	<b>752-700-WP</b>	51	52	15	1	0,012		
				MA - 0 - M	P	<b>742-700-WP</b>	50	52	15	1	0,012		
				MA - 0 - MA	P	<b>712-700-WP</b>	48	52	15	1	0,012		
			54 mm	0 - MA - MA	-	<b>722-700-W0</b>	48	53	15		0,012		
				M - 0 - M	-	<b>732-700-W0</b>	49	53	15		0,012		
				M - 0 - MA	-	<b>752-700-W0</b>	51	53	15		0,012		
				MA - 0 - M	-	<b>742-700-W0</b>	50	53	15		0,012		
				MA - 0 - MA	-	<b>712-700-W0</b>	48	53	15		0,012		

contacts : normally closed = NC, normally open = NO

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

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

hint:

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

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

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

## buzzer for flush mounting 39 - 64 mm



buzzer element page 627

front bezel for buzzer 30 - 55 mm page 628

front bezel set for flush mounting for buzzer page 628

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

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

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

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

## at front

## lens for 35 mm

for pushbuttons 35 mm

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



**lens**

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

Continued on next page



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

**mushroom-head cap**

can only be used with front bezel 18 mm dia.

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

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

for IP 40/IP 65, will be delivered assembled

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



**front cap for keylock-/selector switch 3 positions**

for IP 40/IP 65, will be delivered assembled

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



Continued on next page

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

## lever

will be delivered assembled

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



## buzzer element

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



## push-pull knob

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



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

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



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

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



## front bezel for buzzer 30 - 55 mm

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



## front bezel-set for flush mounting

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

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



## front bezel set for flush mounting for buzzer

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

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



## protective cover for 35 mm

for pushbuttons 35 mm

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



technical drawings from page 642

## protective cover for illuminated-/pushbutton 55 - 70 mm

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



technical drawings from page 642

## protective cover for flush mounting

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

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



## sprayproof cover

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



## protective guard for illuminated-/pushbutton

for mounting depth 55/70 mm

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



## pressure ring

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

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



## sealing ring

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

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



## sealing bulb

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

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



## blind plug for 35 mm

for lenses and pushbuttons 35 mm

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



## blind plug

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

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



## spare key

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

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



At ordering indicate marked lock no.

## at back

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

for pushbuttons 35 mm

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



circuit drawings from page 657, component layouts from page 657

**lamp element block for 35 mm**

for indicator 35 mm

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

**lamp element block for 35 mm**

circuit drawings from page 657, component layouts from page 657

**blind element**

	part no.	[kg]
<b>blind element</b> white	<b>202-0600-00</b>	0,002

**lamp terminal**

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

**intermediate section**

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

**snap-action switching element**

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



technical drawings from page 642

## holder for 2 switching elements

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



## holder for 3 switching elements

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



## spring with pin

for maintained version at the intermediate section

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



## PCB plug-in base

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



## multi-plug housing

	part no.	kg
multi-plug housing	<b>280-0000-00</b>	0,002



## cable shoe

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



## connector with two outputs

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



## insulation socket

	part no.	
insulation socket for connector without locating tongue (280-0003-00)	280-0010-00	0,001



## for illumination

## filament lamp MG T 1 3/4

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



## filament lamp T 5.5

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



## LED MG T 1 3/4

	number of chips	voltage/current	colour	part no.	
LED MG T 1 3/4 with built-in protective diode	6	6 VDC / 45 mA	yellow	10-5306.3254	0,001
			green	10-5306.3255	0,001
			red	10-5306.3252	0,001
		12 VDC / 25 mA	yellow	10-5309.3204	0,001
			green	10-5309.3205	0,001
			red	10-5309.3202	0,001
		24 VDC / 12.5 mA	yellow	10-5312.3134	0,001
			green	10-5312.3135	0,001
			red	10-5312.3132	0,001
		48 VDC / 12.5 mA	yellow	10-5319.3104	0,001
			green	10-5319.3105	0,001
			red	10-5319.3102	0,001



**LED T 5.5**

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

**diode element**

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

**capacitor**

for lamp voltage reduction

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



Please keep to the country specific security rules.

**series resistor**

for lamp voltage reduction

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



Please keep to the country specific security rules.

**terminal plate empty**

for fitting with series resistors and capacitors

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



## for emergency stop switch

### label for emergency stop switch

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



### slow-make switching element for emergency stop switch

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



technical drawings from page 642

### dismantling tool for emergency stop switch foolproof

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



## assembling

### fixing nut

for standard mounting

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



## fixing nut for flush mounting

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



## location strip

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

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



## lens remover

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



## lamp/LED remover

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



Warning:

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

## mounting tool

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



## contact element pliers

for block mounting

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



## jaw spanner

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



## cable shoe remover

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



## Switching system

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

## Materials

### Mushroom-head cap

Polyamide PA

### Actuator housing

Polyetherimide PEI, self-extinguishing

### Switching element

Polyamide PA

Polysulfone PSU

### Contact material

Silver

## Connections

### Solder/plug-in terminal

max. wire diameter: 2 wires of 1 mm

max. wire cross-section: 1 strand at 0.75 mm<sup>2</sup>

### Connection

2.8 x 0.5 mm

## Mechanical characteristic values

### Actuating travel

EMERGENCY button 10 mm

### Actuating force

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

### Self-aligning torque

15 Ncm

### Shock resistance

(single impact, half-sinusoidal)

50 g, 11 ms as per IEC 512-4

### Resistance to vibration

(sinusoidal)

10 g, at 10- 2000- 10- Hz

Amplitude 0.75 mm as per IEC 512-4

### Rebound time

<= 2 ms

### Degree of pollution

3

## Protection class

Front side IP 65

Switching element IP 40

## Ambient temperature

-25°C as per DIN EN 60068-2-1

+55°C as per DIN EN 60068-2-2

## Storage temperature

-40°C to +85°C

## Mechanical service life

EMERGENCY button 50,000 operations

## Electrical characteristic values

### Switch rating

Silver contact

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

### Service category

Rated service  
voltage

current (inductive)

	AC 13	AC 14
250 VAC	3 A	2 A
120 VAC	5 A	3 A
60 VAC	6 A	4 A
24 VAC	6 A	5 A

### Service category

Rated service  
voltage

current

	resistive	DC 13
240 VDC	0.5 A	0.2 A
110 VDC	0.7 A	0.4 A
60 VDC	2.0 A	1.0 A
24 VDC	6.0 A	2.0 A

## Volume resistivity

New value for:

Silver contact

<= 50 m Ω

as per IEC 512-2 Test 5

## Rated insulation voltage Ui

300 VAC

## Electric strength

as per VDE 0660 (IEC 512-2-11)

4000 VAC, 50 Hz, 1 min between connections and earth

## Overshoot category

III

**Thermal steady current** **$I_{th2}$  solder/plug-in connection 5 A**

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

**Max. permissible rated current**

for series-connected blow-out fuse  
10 A gL

**Electrical service life**

Slow-make element 6050 operations

**Approvals**

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

Right reserved to change all technical specifications.

**EMERGENCY slow-make element****General**

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

**Material****Housing**

Duroplast (DAP)  
with fireproofing as per UL 94 V0

**Contact**

AgNi, 2 µm gilded

**Contact carrier**

Brass or CuBe

**Connection**

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

**Mechanical characteristic values****Ambient temperature**

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

**Storage temperature**

-40°C to +85°C

**Mechanical service life**

8000 switching cycles

**Contact opening width**

> 2 x 1.5 mm

EMERGENCY switching element

**Electrical characteristic values****Rated voltage**

250 V / 50 Hz

**Service category**

AC 15: 250 V / 1 A

**Rated insulation voltage  $U_i$** 

250 V

**Series-connected blow-out fuse**

5 A gL

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

5 A

**Electrical service life**

8000 switching cycles AC 15: 250 V / 1 A

**Diode element****General**

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

**Material****Housing**

Thermoplast (PETP)  
with fireproofing as per UL 94 V0

**Connection**

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

**Electrical characteristic values****Diode**

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

**Dummy element****General**

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

**Material****Housing**

Thermoplast (PET)  
with fireproofing as per UL 94 V0

**Alarm buzzer****Operating voltage**

**Current consumption**

approx. 13 mA

**Reverse-connect protection**

yes

**Acoustics**

approx. 84 dB at 0.1 m

**Frequency**

approx. 2.3 kHz

**Unit****General**

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

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

**1. Front**

Man-switch interface and state detector

**2. Intermediate piece**

Set and reset device, bulb holder, latching function

**3. Switching element block**

Up to five switching elements can be integrated in a switching element block.

Each switch is tested fully mounted. Electrical output and service life are determined by the switching element. Front and intermediate piece are designed for maximum service life of the switching element. They determine in what way the switches are protected against external influences. The type approvals relate to the complete switches. The approval regulations are UL 1054, VDE 0630 (EMERGENCY button VDE 0660), CSA 22.2.

**Mechanical characteristic values****Resistance to vibration**

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

**Shock resistance**

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

15 g during 11 ms as per DIN EN 60068-2-29

**Approvals**

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

**Front****General**

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

**Material****Lens**

Thermoplast (PC)

**Front bezel**

Thermoplast with fireproofing (PBT)

**Actuator 35 mm**

Thermoplast with fireproofing (PBT)

**Lock housing**

Thermoplast with fireproofing (PBT)

**Lock cylinder**

Rynite reinforced with carbon fibre (PBT + CF)

Seal bellows (IP 65)

Silicon

**Mechanical characteristic values****Protection class**

as per IEC 529 (front side)

IP 40

IP 65

IP 67

protection against water

0 = without protection

5 = spray water

7 = watertight up to 1 m WS

protection against solid matter of varying size

4 = protection against solid matter  $> \frac{1}{2}$  mm

6 = dust-tight

see "Intermediate piece" for other properties

**Intermediate piece****General**

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

**Material****Housing**

Thermoplast with fireproofing (PC)

**Lamp connection**

Nickel silver 2.8 x 0.5 mm

**Electrical characteristic values****Electric strength**

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

**Insulation resistance**

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

**Illumination****Lamp voltage**

6 V to 125 V as per CSA

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

## Lamp output

max. 1.2 W

## Mechanical characteristic values

### Ambient temperature

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

### Storage temperature

-40°C to +85°C

### Service life

> 2 x 10<sup>6</sup> activations of the illuminated pushbuttons  
> 5 x 10<sup>4</sup> activations of the key and selector switches  
> 8 x 10<sup>3</sup> activations of the emergency button  
> 2.5 x 10<sup>5</sup> activations of the push-pull illuminated button

## Switching element block

### General

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

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

### Material

#### Bracket for three switching elements

rust-free chromium steel

#### Bracket for two switching elements

Thermoplast with fireproofing (PA6)

### Lamp connection

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

## Electrical characteristic values

### Electric strength

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

### Insulation resistance

> 10<sup>12</sup> W

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

## Snap-action switching element

### General

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

### Material

### Housing

Thermoplast (PETP)  
with fireproofing as per UL 94 V0

### Contact

AgNi, 2 µm gilded

### Contact carrier

Brass or CuBe

### Connection

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

## Mechanical characteristic values

### Ambient temperature

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

### Storage temperature

-40°C to +85°C as per DIN EN 60068

### Mechanical service life

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

### Contact opening width

2 x 0.65 mm

### Contact cleaning path

2 x 0.6 mm

### Rebound time

typically 0.5 ms

### Activation force

approx. 2 N for each snap-action switching element

## Electrical characteristic values

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

6 A, up to 3-pole switching element block  
4 A, for 4- and 5-pole switching element blocks  
Limited on thermal grounds to I<sub>max.</sub> = 4 A

### Volume resistivity

< = 50 m Ω typically, new statically

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

5(1.5) A 250 V up to 3 switching elements  
4(1) A 250 V for 4 or 5 switching elements,  
min. AC / DC: 5 V / 1 mA

### Electrical service life

> 10<sup>4</sup> switching operations  
DIN EN 61058-1250 V, (1.5) A  
DIN EN 60947-5-1 AC 12:250 V / 0.5 A  
110 V / 2 A  
75 V / 5 A  
60 V / 6 A  
48 V / 6 A  
24 V / 6 A

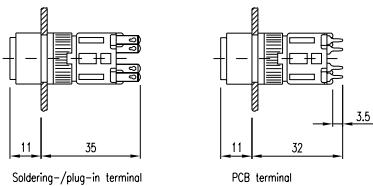
## Snap-action switching element

Out 4.7

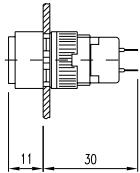
In 3.6

## technical drawings

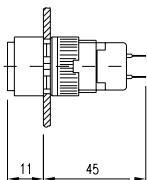
**1 indicator actuator 35 mm, pushbutton-/illuminated pushbutton actuator 35 mm**  
page 591, 592



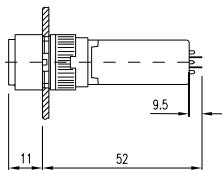
**2 indicator 30 - 70 mm, buzzer 30 - 55 mm**  
page 591, 607



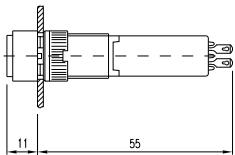
**3 indicator 30 - 70 mm**  
page 591



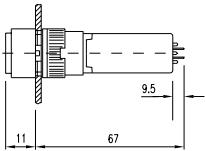
**4 indicator 30 - 70 mm, buzzer 30 - 55 mm**  
page 591, 607



**5 indicator 30 - 70 mm, buzzer 30 - 55 mm**  
page 591, 607

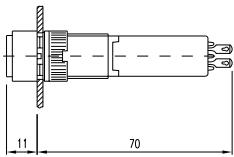


**6 indicator 30 - 70 mm**  
page 591

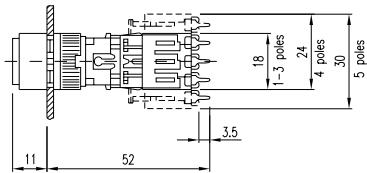


**7 indicator 30 - 70 mm**

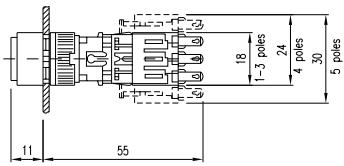
page 591

**8 illuminated-/pushbutton 55 - 70 mm**

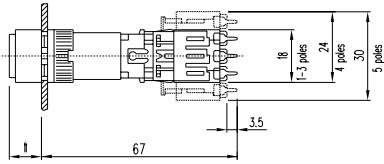
page 593

**9 illuminated-/pushbutton 55 - 70 mm**

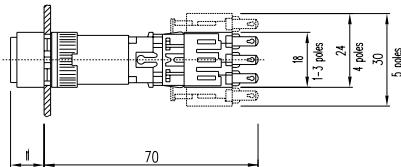
page 593

**10 illuminated-/pushbutton 55 - 70 mm**

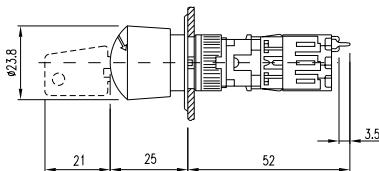
page 593

**11 illuminated-/pushbutton 55 - 70 mm**

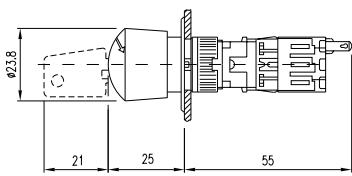
page 593

**12 emergency stop switch 55 - 70 mm**

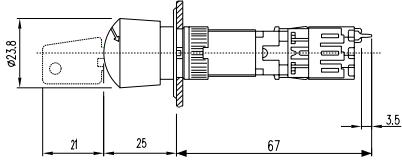
page 594



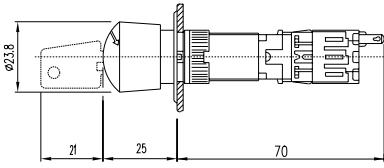
**13 emergency stop switch 55 - 70 mm**  
page 594



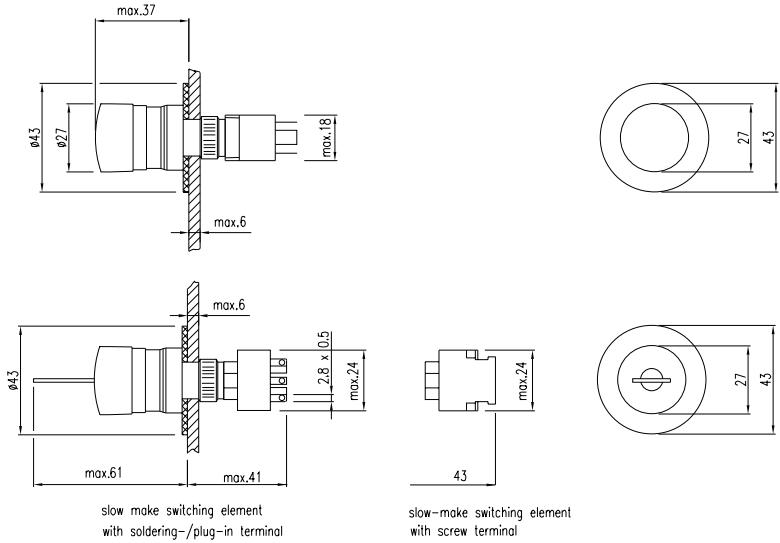
**14 emergency stop switch 55 - 70 mm**  
page 594



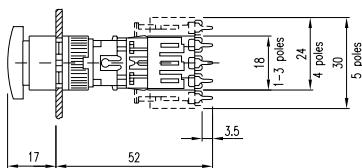
**15 emergency stop switch 55 - 70 mm**  
page 594



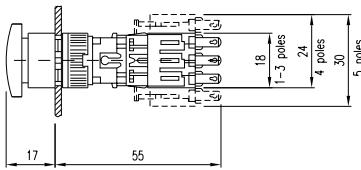
**16 emergency stop switch foolproof 41 mm**  
page 596



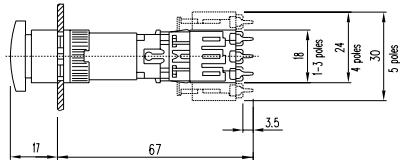
**17 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



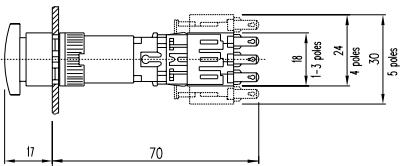
**18 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



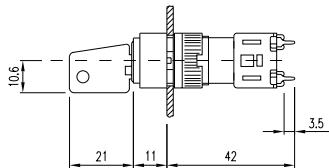
**19 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



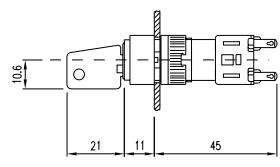
**20 pushbutton with mushroom-head cap 55 - 70 mm**  
page 597



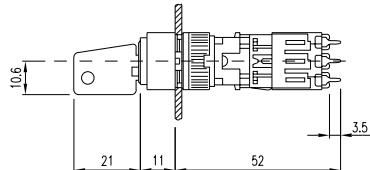
**21 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm**  
page 598, 602



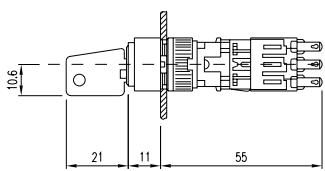
**22 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm**  
page 598, 602



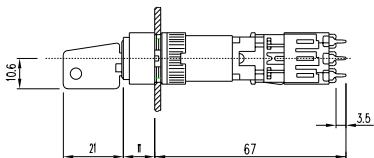
**23 keylock switch 2 positions 45 - 70 mm**  
page 598



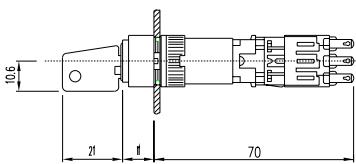
**24 keylock switch 2 positions 45 - 70 mm**  
page 598



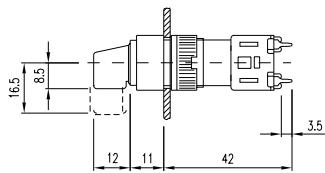
**25 keylock switch 2 positions 45 - 70 mm**  
page 598



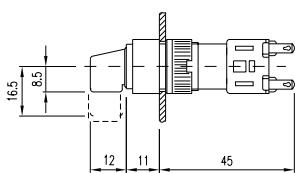
**26 keylock switch 2 positions 45 - 70 mm**  
page 598



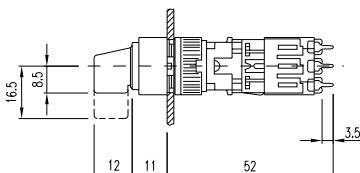
**27 selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm**  
page 603, 606



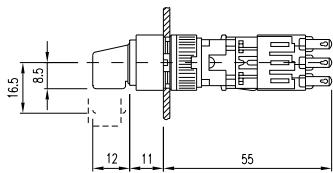
**28 selector switch 2 positions 45 - 70 mm, selector switch 3 positions 45 mm**  
page 603, 606



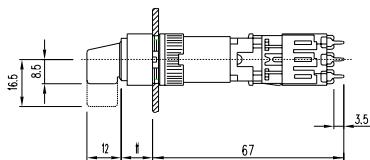
**29 selector switch 2 positions 45 - 70 mm**  
page 603



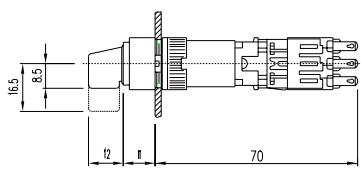
**30 selector switch 2 positions 45 - 70 mm**  
page 603



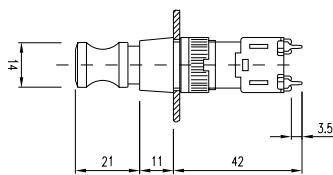
**31 selector switch 2 positions 45 - 70 mm**  
page 603



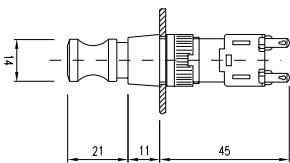
**32 selector switch 2 positions 45 - 70 mm**  
page 603



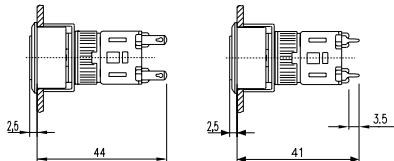
**33 push-pull illuminated switch 45 mm**  
page 607



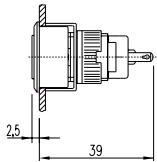
**34 push-pull illuminated switch 45 mm**  
page 607



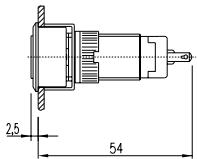
**35 indicator actuator 41-44 mm for flush mounting, illuminated-/pushbutton actuator 41-44 mm for flush mounting**  
page 608, 610



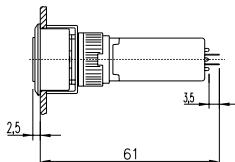
36 indicator for flush mounting 39 - 79 mm, buzzer for flush mounting 39 - 64 mm  
page 609, 621



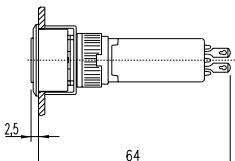
37 indicator for flush mounting 39 - 79 mm  
page 609



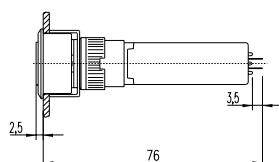
38 indicator for flush mounting 39 - 79 mm, buzzer for flush mounting 39 - 64 mm  
page 609, 621



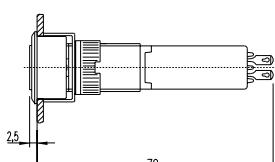
39 indicator for flush mounting 39 - 79 mm, buzzer for flush mounting 39 - 64 mm  
page 609, 621



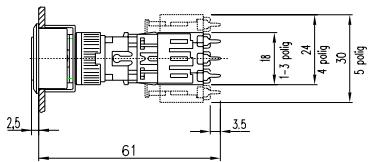
40 indicator for flush mounting 39 - 79 mm  
page 609



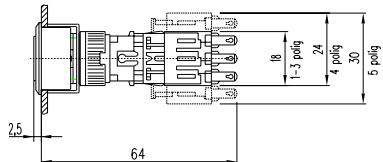
41 indicator for flush mounting 39 - 79 mm  
page 609



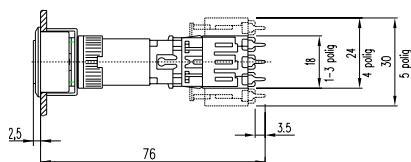
**42 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 611



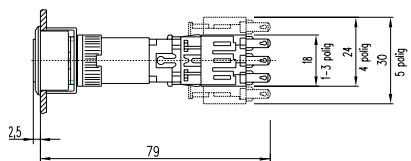
**43 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 611



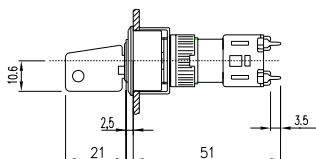
**44 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 611



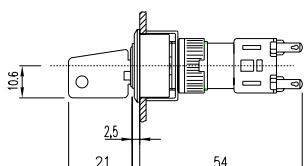
**45 pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 611



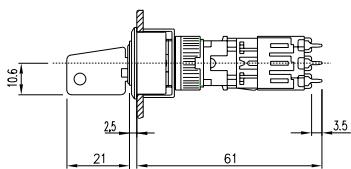
**46 keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 612, 616



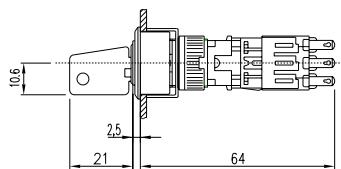
**47 keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 612, 616



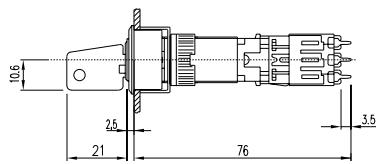
**48 keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 612



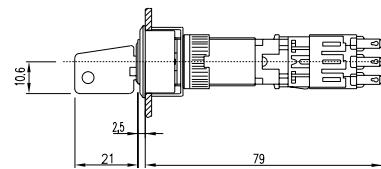
**49 keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 612



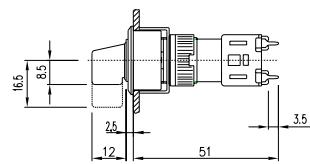
**50 keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 612



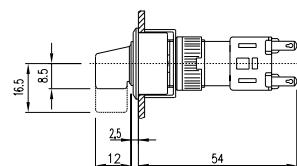
**51 keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 612



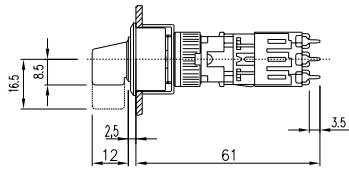
**52 selector switch 2 positions for flush mounting 51 - 79 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 617, 620



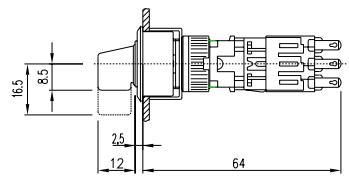
**53 selector switch 2 positions for flush mounting 51 - 79 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 617, 620



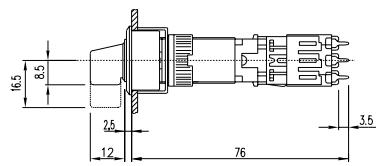
**54 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617



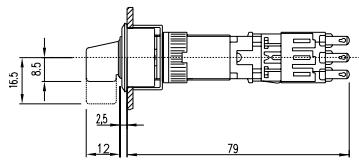
**55 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617



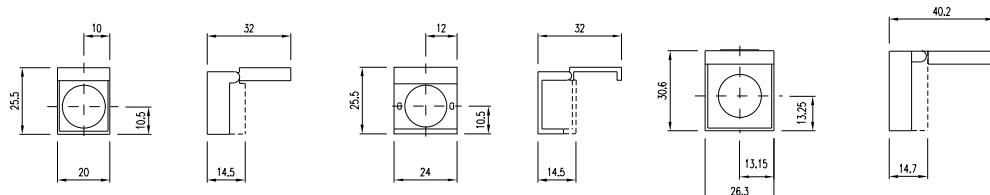
**56 selector switch 2 positions for flush mounting 51 - 79 mm**  
page 617



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

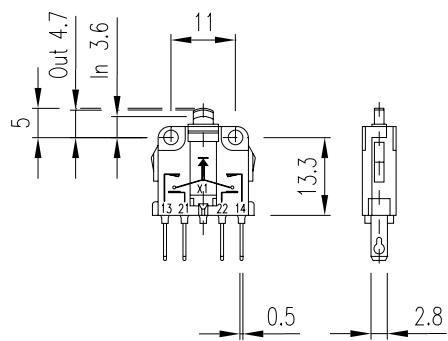


**58 protective cover for 35 mm, protective cover for illuminated-/pushbutton 55 - 70 mm**  
page 628, 629



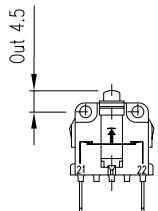
## 59 snap-action switching element

page 632



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

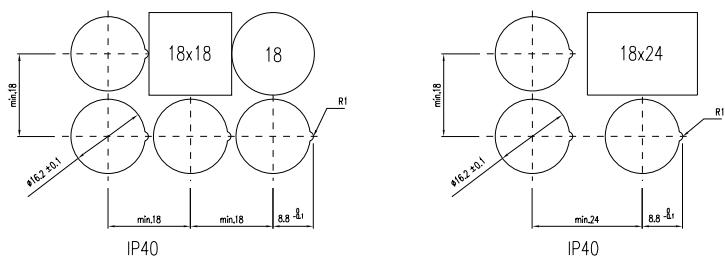
page 636



## mounting dimensions

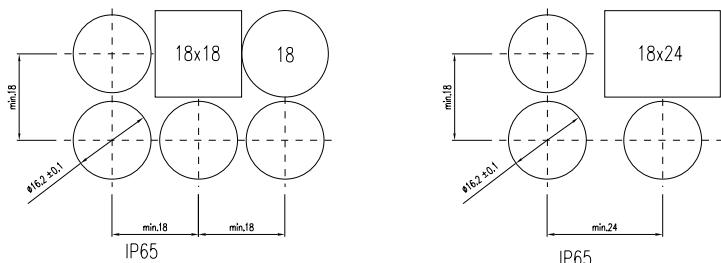
### 1 indicator actuator 35 mm, pushbutton-illuminated pushbutton actuator 35 mm

page 591, 592

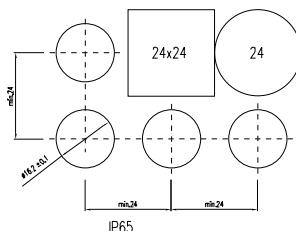
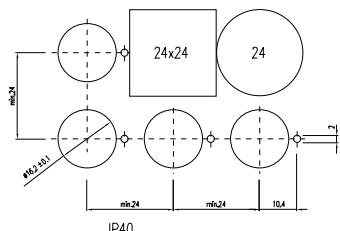
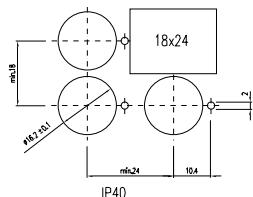
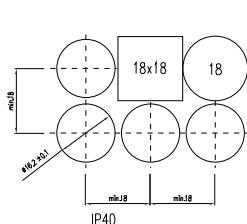


### 2 indicator actuator 35 mm, pushbutton-illuminated pushbutton actuator 35 mm

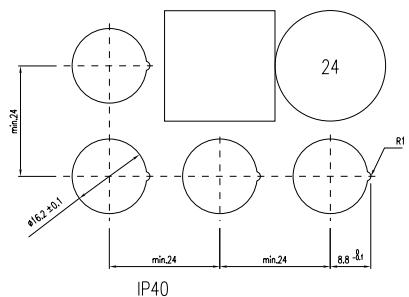
page 591, 592



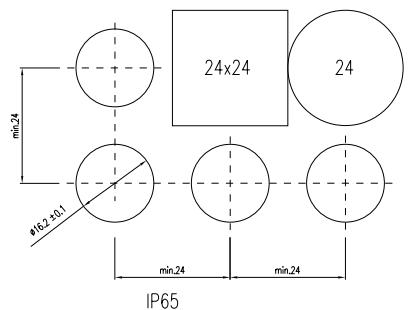
**3 indicator 30 - 70 mm, illuminated-/pushbutton 55 - 70 mm**  
page 591, 593,



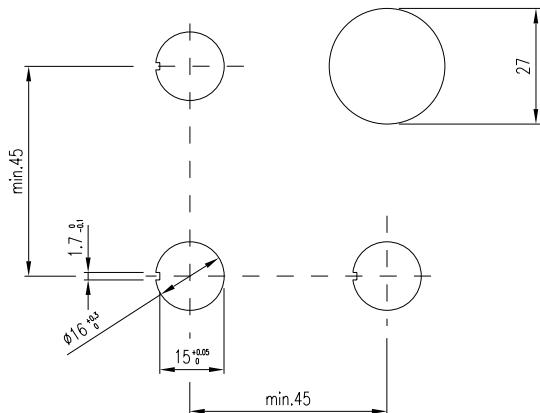
**4 emergency stop switch 55 - 70 mm**  
page 594



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

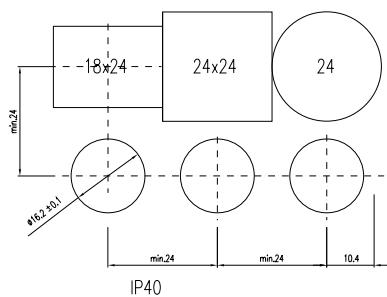


**6 emergency stop switch foolproof 41 mm**  
page 596



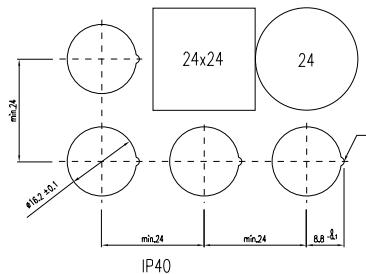
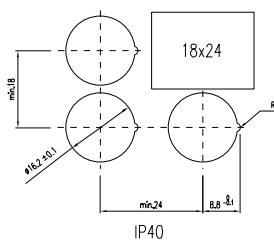
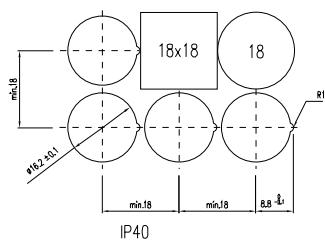
## 7 pushbutton with mushroom-head cap 55 - 70 mm

page 597



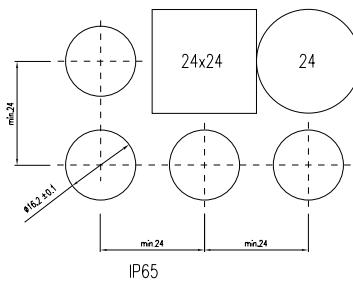
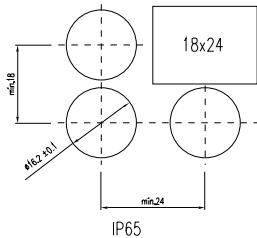
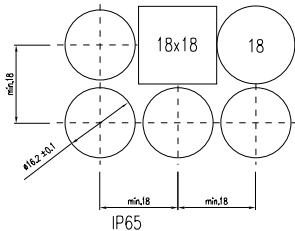
## 8 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm

page 598, 602,



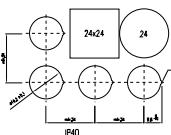
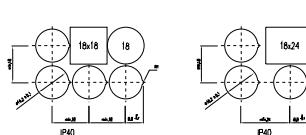
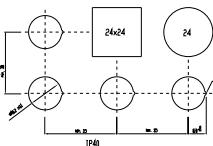
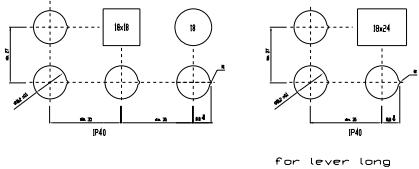
## 9 keylock switch 2 positions 45 - 70 mm, keylock switch 3 positions 45 mm

page 598, 602



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

page 603, 606

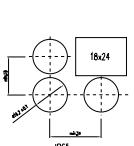
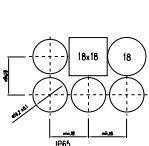
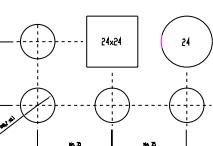
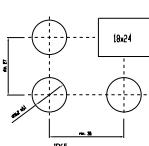
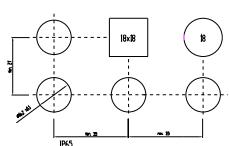


for lever long

for lever short

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

page 603, 606

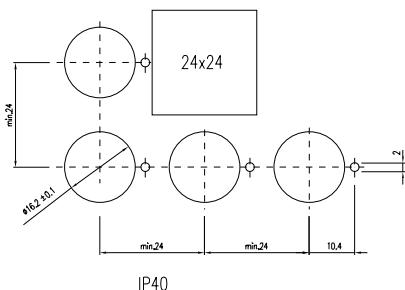
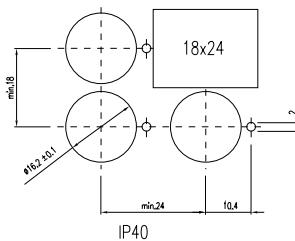


for lever long

for lever short

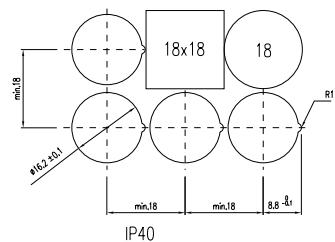
## 12 buzzer 30 - 55 mm

page 607



## 13 push-pull illuminated switch 45 mm

page 607



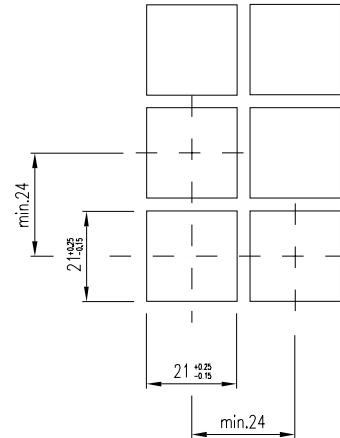
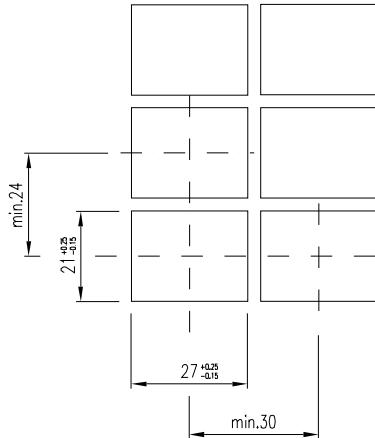
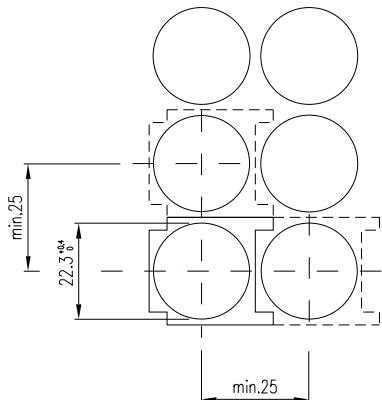
## 14 indicator actuator 41-44 mm for flush mounting, indicator for flush mounting 39 - 79 mm, illuminated-/pushbutton actuator 41-44 mm for flush mounting, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm, keylock switch 2 positions for flush mounting 51 - 79 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm

page 608, 609, 610, 611, 612, 616

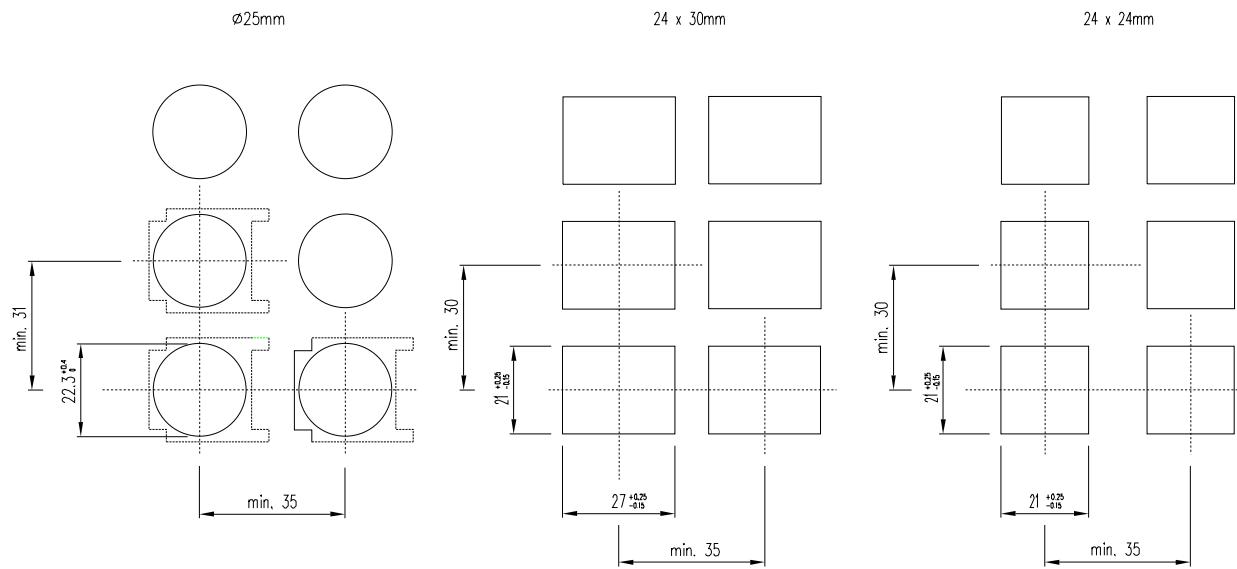
Ø25mm

24 x 30mm

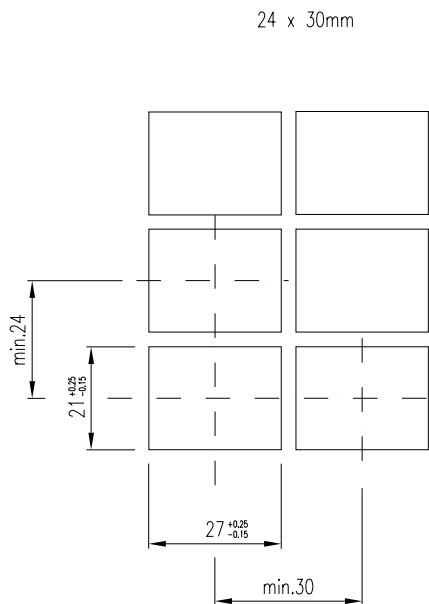
24 x 24mm



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



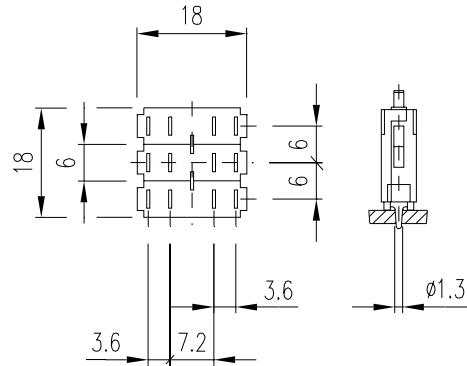
**16 buzzer for flush mounting 39 - 64 mm**  
page 621



## component layouts

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

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

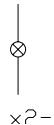


## circuit drawings

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

page 591, 591, 608, 609, 632

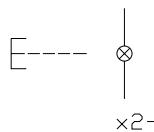
x1+



2 pushbutton-/illuminated pushbutton actuator 35 mm

page 592

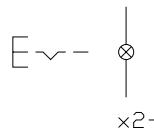
x1+



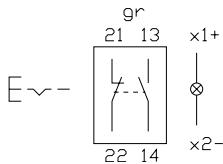
3 pushbutton-/illuminated pushbutton actuator 35 mm

page 59

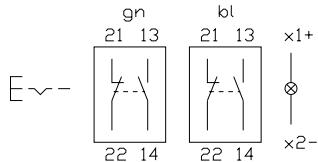
x1+



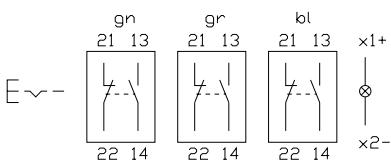
**4 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



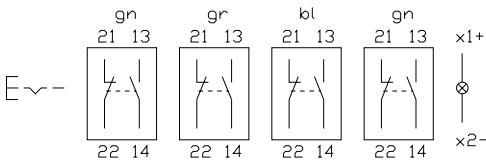
**5 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



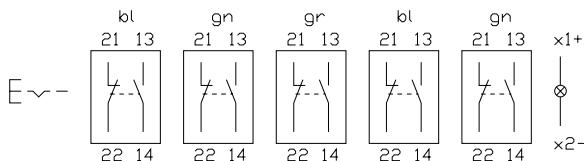
**6 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



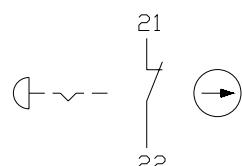
**7 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



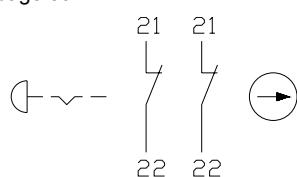
**8 illuminated-/pushbutton 55 - 70 mm, pushbutton-/illuminated pushbutton for flush mounting 61 - 79 mm**  
page 593, 611



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

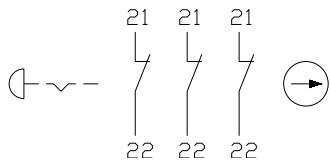


**10 emergency stop switch 55 - 70 mm**  
page 594

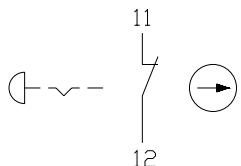


**11 emergency stop switch 55 - 70 mm**

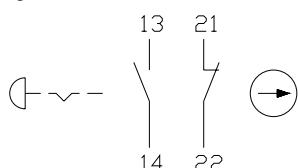
page 594

**12 emergency stop switch foolproof 41 mm**

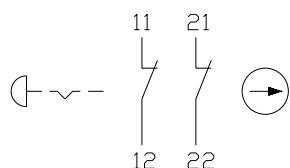
page 596

**13 emergency stop switch foolproof 41 mm**

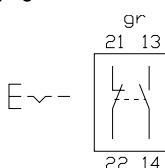
page 596

**14 emergency stop switch foolproof 41 mm**

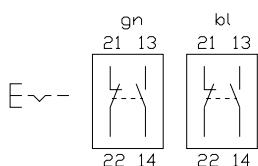
page 596

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

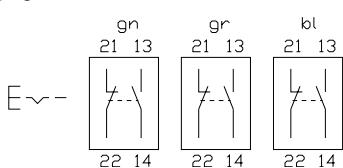
page 597

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

page 597

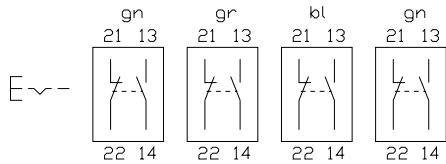
**17 pushbutton with mushroom-head cap 55 - 70 mm**

page 597

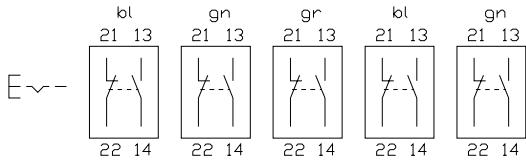


**18 pushbutton with mushroom-head cap 55 - 70 mm**

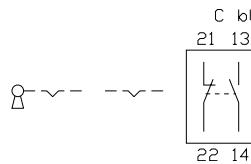
page 597

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

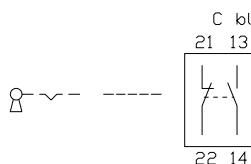
page 597

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

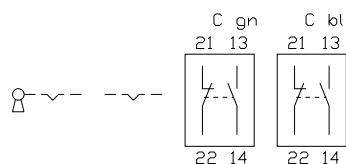
page 598, 612

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

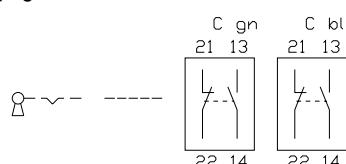
page 598, 612

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

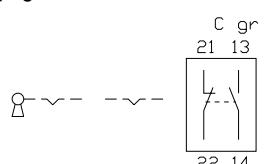
page 598, 612

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

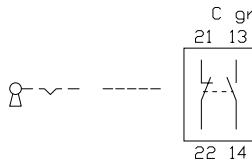
page 598, 612

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

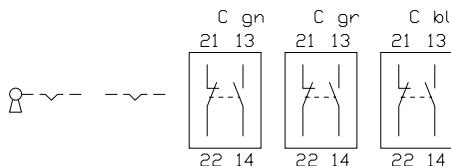
page 598, 612



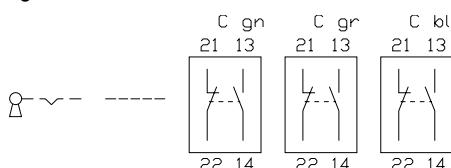
**25 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



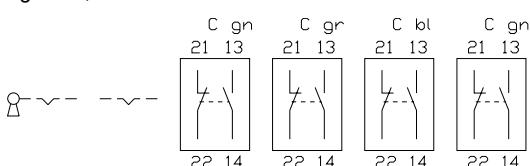
**26 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



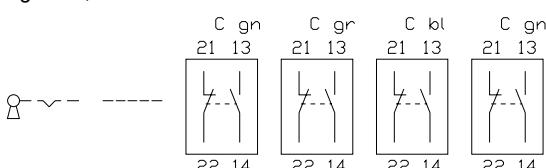
**27 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



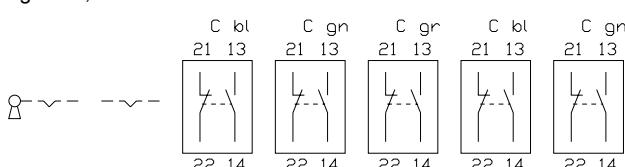
**28 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



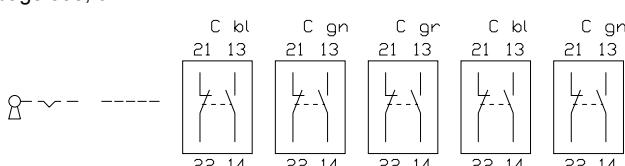
**29 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



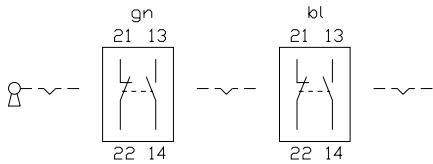
**30 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



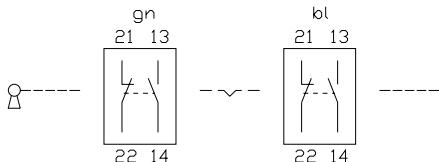
**31 keylock switch 2 positions 45 - 70 mm, keylock switch 2 positions for flush mounting 51 - 79 mm**  
page 598, 612



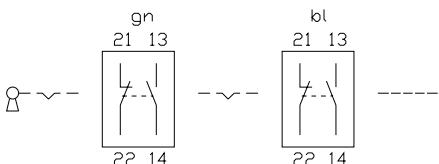
**32 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



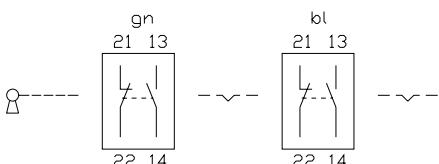
**33 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



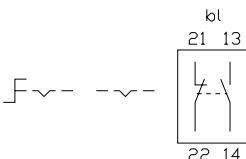
**34 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



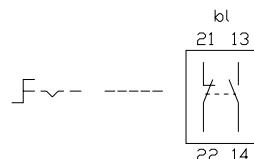
**35 keylock switch 3 positions 45 mm, keylock switch with 3 positions for flush mounting 51 - 54 mm**  
page 602, 616



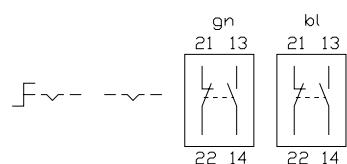
**36 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



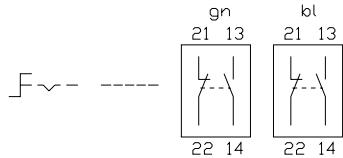
**37 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



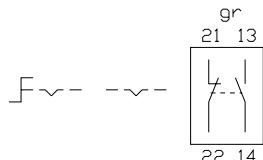
**38 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



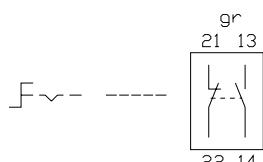
**39 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



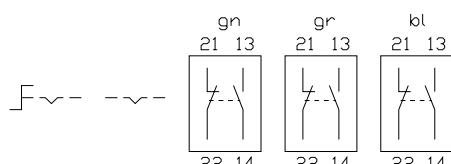
**40 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



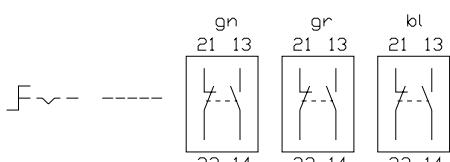
**41 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



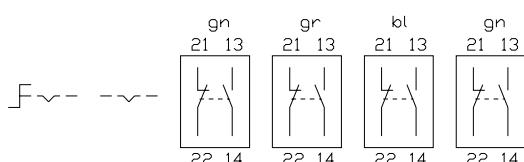
**42 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



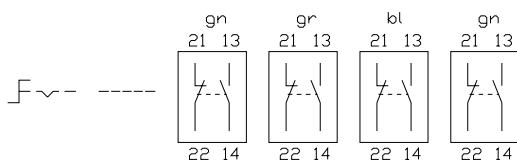
**43 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



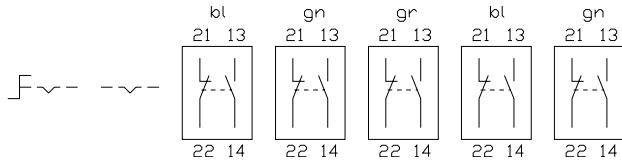
**44 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



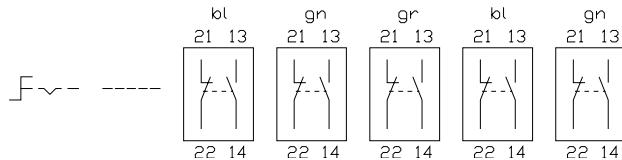
**45 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



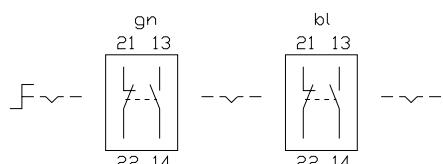
**46 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



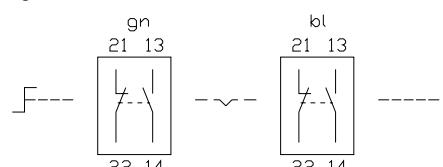
**47 selector switch 2 positions 45 - 70 mm, selector switch 2 positions for flush mounting 51 - 79 mm**  
page 603, 617



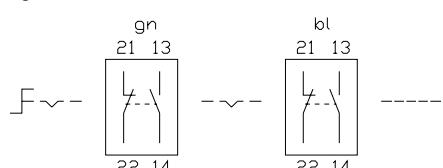
**48 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620



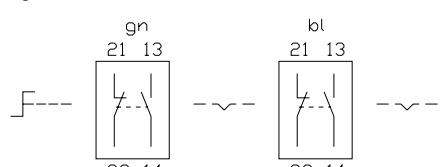
**49 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620



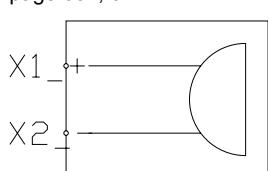
**50 selector switch 3 positions 45 mm, selector switch 3 positions for flush mounting 51 - 54 mm**  
page 606, 620



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

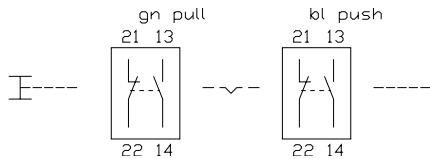


**52 buzzer 30 - 55 mm, buzzer for flush mounting 39 - 64 mm**  
page 607, 621

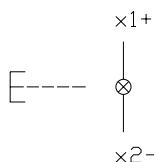


**53 push-pull illuminated switch 45 mm**

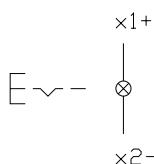
page 607

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

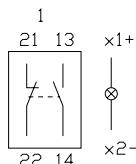
page 610

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

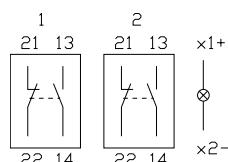
page 610

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

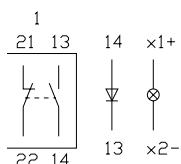
page 631

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

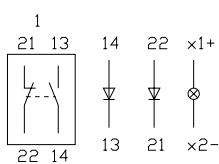
page 631

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

page 631

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

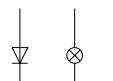
page 631



**60 lamp element block for 35 mm**

page 632

14      x1+

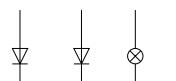


13      x2-

**61 lamp element block for 35 mm**

page 632

14      22      x1+



13      21      x2-

## 1. Engraving

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

### Colour of lettering

White for lens tops red, blue, green and black

Black for lens tops orange, yellow, grey and white

Black for lens holders translucent and transparent

### Important!

With engraving, the position of the lens must agree with the position of the push-button or indicator.

However, the lens can be mounted turned through 180°.

## 2. Hot stamping

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

### Important!

With pad printing, the position of the lens must agree with the position of the push-button or indicator.

However, the lens can be mounted turned through 180°.

## 3. Film insert

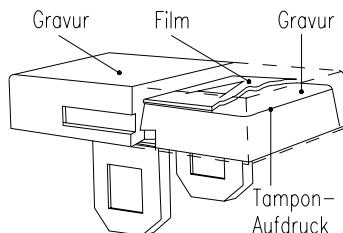
Instead of engraving, a transparent foil can be laid in the lens tops, except with the colours grey and black.

### Foil thickness

**0.1 mm max**

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

## Filmdickemax. 0,1mm



### Important!

When a foil is used, the position of the lens must agree with the position of the push-button or indicator.

However, the lens can be mounted turned through 180°.

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





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

#### Наши преимущества:

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

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

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



#### Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: [org@eplast1.ru](mailto:org@eplast1.ru)

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