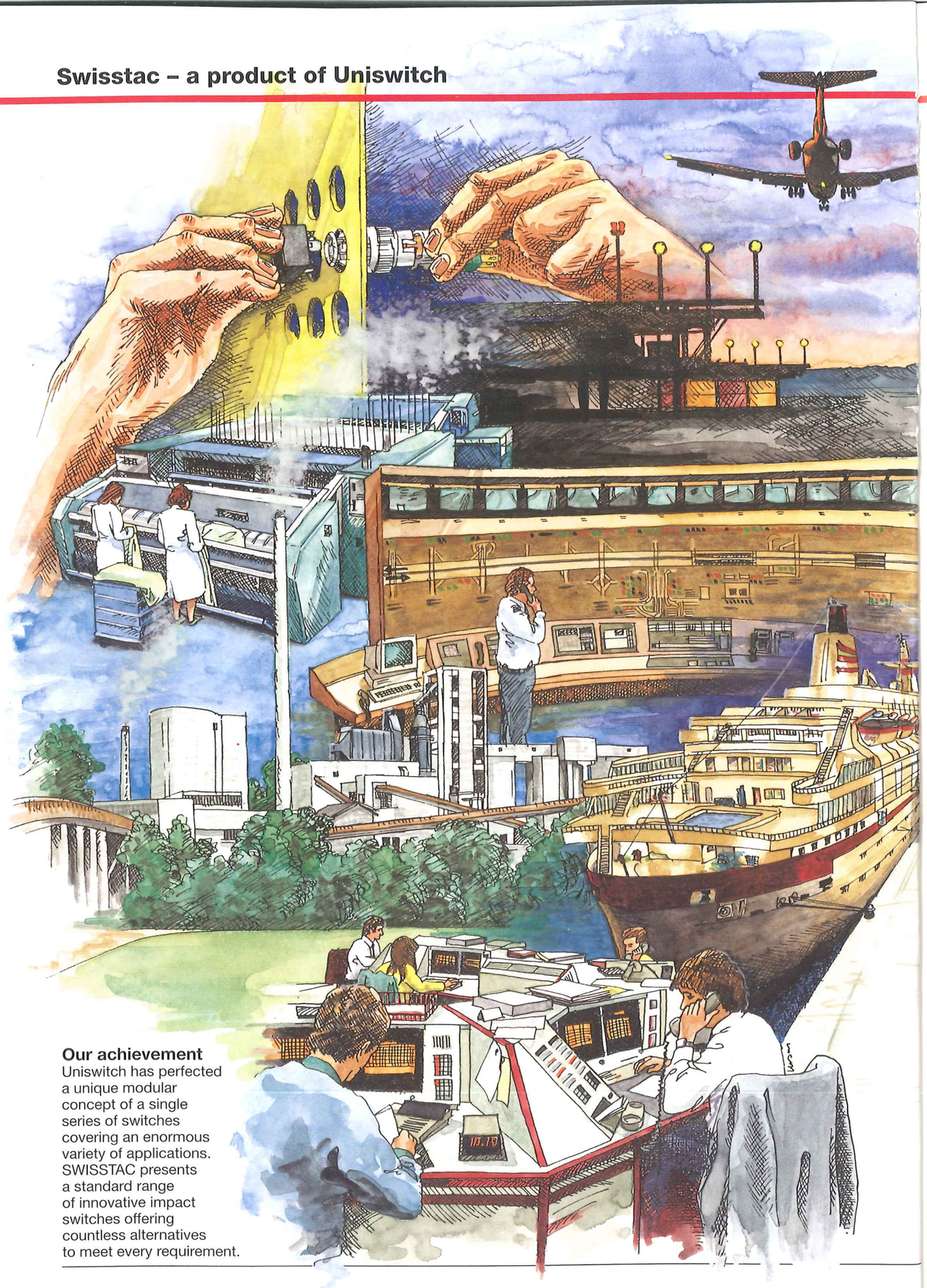
Control and signalling equipment

Swisstac

Swisstac – a product of Uniswitch



Our achievement
Uniswitch has perfected a unique modular concept of a single series of switches covering an enormous variety of applications. SWISSTAC presents a standard range of innovative impact switches offering countless alternatives to meet every requirement.

Finding the best solution together
SWISSTAC can indeed satisfy more client needs than any other switch. The best possible solutions are worked out through close cooperation between the client and Uniswitch's application engineers. Because we are so flexible, special requests can be considered right from the development stage or during production. We also have long and detailed experience of working with OEMs (original equipment manufacturers). Besides holding large stocks for quick delivery, Uniswitch guarantees very short lead times from bid to dispatch.

A single-source supplier
A medium-sized company, Uniswitch offers a number of important advantages. For example, all products are developed, manufactured and tested on the premises with much skill and great precision. A small, highly effective team in direct contact with the client provides comprehensive, expert advice. Superbly trained specialists have the courage to be creative, but with a close eye on cost effectiveness.

Outlook highly promising
Devices that communicate by sight or sound have a great future. An exciting prospect to which our research and development is deeply committed. Here Uniswitch aims to set trailblazing standards, as with the SWISSTAC switch. A new generation of electronic switches perhaps. Or new forms of annunciation. Many ideas – some of them distinctly outlandish – are on the verge of becoming reality. As we develop novel and inexpensive products for fast delivery we are at the same time constantly optimizing and modernizing our production methods in the interests of efficiency and a clean environment.

Swisstac

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Technical details

> We saw very early the way things were heading: first class quality, high standards of safety and reliability and above-average reserves of performance are no longer enough. So we place great emphasis on the environmental acceptability of the materials we use.

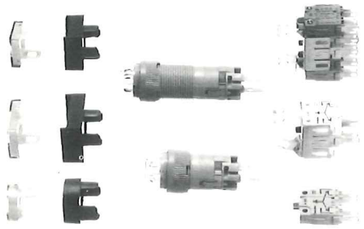
Erwin Hartmann
Head of Design Department

Swisstac

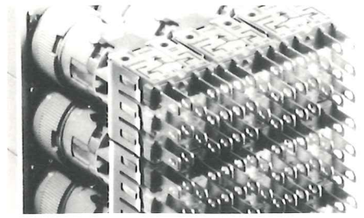
Construction of illuminated pushbutton 55 and 70 mm

Three crucial advantages

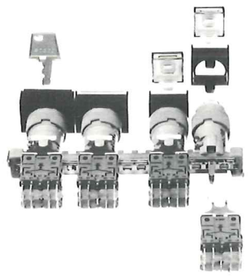
Easy storage in minimum space
Every SWISSTAC switch can be altered very simply any number of times, and afterwards added to, modified or adapted. This highly modular concept means that only a few subassemblies need to be stocked, so shortening lead times, simplifying inventory control and significantly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

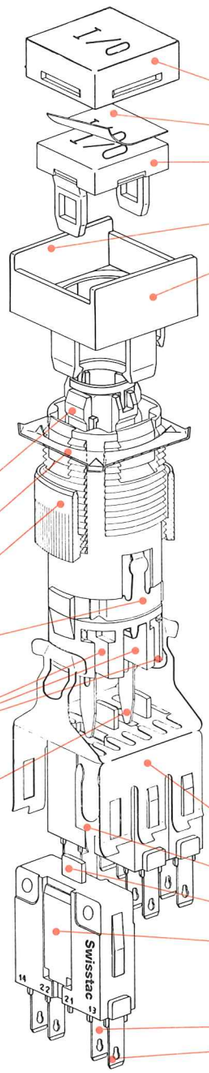


All connections on one plane
All the terminals are arranged at one level, clearly laid out and fully accessible even when in close-packed arrays. Three colours help to make wiring up easier.



Ideal for switch interlock systems
SWISSTAC switches can be mechanically combined in many ways to form switch interlock systems in rows of up to 20 switches. So complicated protective and relay interlocks are unnecessary. Individual and irregular spacings between the switches of an array are no problem either.





Front section
Lens in two parts for engraving, printing or foil insert
Lens top
Foil insert (optional)
Lens holder
Side guard
Interchangeable bezel, grey or black.
Shape: ∅ 18 mm, 18 x 18 mm, 18 x 24 mm, ∅ 24 mm or 24 x 24 mm

Switch body
Switch body with switch mechanism and lampholder, latter available in two versions:
– T 5,5 , max. 1,2 W
– Midget grooved T 1 3/4, max. 1,2 W
Connector
Location strip (optional)
Fixing nut
Spring and retaining pin, moved to change from latch to pulse mode.
Access for mechanical interlocks and trips.
Lamp terminal

Terminal block
Block equipped with 1 to 5 contact elements, fixed onto switch body when delivered. Easy to remove for wiring up.
Holder for contact elements
Lamp contact
Contact slider
Contact element (1 NC + 1 NO contact or changeover), diode unit or dummy element
Terminals, inner (NC)
Terminals, outer (NO)

General

SWISSTAC switches are of modular construction and made up of the three subassemblies:

– Front section: Man/switch interface and status indicator
– Intermediate section: Latching/pulse facility, lampholder, latch function select
– Terminal block: For up to five contact elements

Every switch is tested after assembly. Electrical performance and useful life are governed by the contact element. Front and intermediate section are designed for the maximum useful life of the contact element. These determine the manner of protecting the switch against outside influences. Approvals apply to complete switches. The codes of approval are UL 1054, VDE 0630, SEV 1005/CEE 24, CSA 22.2.

Vibration resistance:	tested to IEC 68-2-6 (10 g to 2000 Hz)
Impact resistance:	tested to IEC 68-2-27 (halfsine, 50 g for 11 ms)
Approved by:	UL, CSA, VDE, SEV, NEMKO, DEMKO, SEMKO, FEMKO

Front section

The front section displays the switching status, is used to operate the switch, and determines its class of protection. The shape and colours of the front section also distinguish the appearance of the whole switch. Except for the 18 mm dia. front section of illuminated pushbuttons 55 and 70 mm, all bezels have a side guard against accidental operation.

Materials	Lens	Thermoplastic (PC)
	Bezel	Thermoplastic, fire-resistant (PBT)
	Actuator 35 mm	Thermoplastic, fire-resistant (PBT)
	Lock housing	Thermoplastic, fire-resistant (PBT)
	Lock cylinder	Rynite with carbon fibre reinforcement (PBT + CF)
	Sealing gland (IP 65)	Silicone

Protection class to IEC 529

IP 40
IP 65
IP 67

- Protection against water
  - 0 = no protection
  - 5 = splash-proof
  - 7 = immersible to 1 m w.g.
- Protection against foreign bodies
  - 4 = protection against solid bodies > ∅ 1 mm
  - 6 = dustproof

Other properties under **Intermediate section** below

Intermediate section

The intermediate section performs a number of functions such as pulse and latching.
In addition, all components making up a complete switch are attached to the intermediate section. These are the front section, terminal block and lamps.

Materials	Housing	Thermoplastic, fire-resistant (PC)
	Lamp contact	German silver 2,8 x 0,5 mm
Electrical	Dielectric strength	2000 V AC, 50 Hz, 1 min to IEC 512-2-11
	Insulation resistance	$>10^{12}$ ohm to IEC 512-2-10
	Lamp voltage	6 V to 220 V to SEV, NEMKO, FEMKO
		6 V to 125 V to CSA
		6 V to 60 V to VDE, UL, DEMKO
		6 V to 50 V to SEMKO
	Lamp power	1,2 W max.
Thermal	Operating temperature	– 25°C to + 55°C
	Storage temperature	– 40°C to + 85°C
Mechanical	Useful life	$> 2 \times 10^6$ operations for illuminated pushbuttons
		$> 5 \times 10^4$ operations for key-, lever- and emergency Stop switches
		$> 2{,}5 \times 10^5$ operations for push/pull illuminated switch

Terminal block

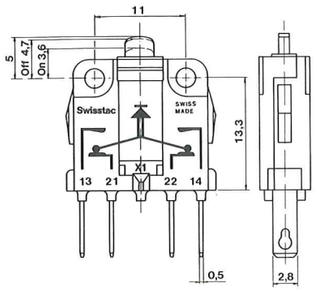
The terminal block contains up to five mutually independent contact elements as switching elements.
The switch's load capacity is determined solely by the contact elements fitted. There are five different kinds of contact elements:

1. Standard contact element
2. Contact element for uprated switching frequency
3. Emergency Stop element
4. Diode or twin-diode element
5. Dummy element

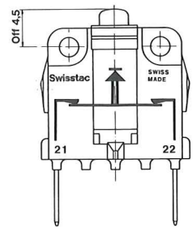
The data immediately below apply to all elements. Data specific to the different elements are shown overleaf.

Materials	Holder for three contact elements	Stainless chrome steel
	Holder for two contact elements	Thermoplastic, fire-resistant (PA6)
	Lamp contact	CuBe, 2 µm Optalloy 2,8 x 0,5 mm
Electrical	Dielectric strength	2000 V AC, 50 Hz, 1 min to IEC 512-2-11
	Insulation resistance	$> 10^{12}$ ohm
	Contact resistance	< = 50 milliohm typical, new static
	Contact loading max.	AC: 250 V/6 A (VDE 5 A), cos φ = 0,7 – 0,8
		DC: 250 V/0,5 A
		DC: 110 V/2 A
		DC: 75 V/5 A
Caution!	For thermal reasons, 4 and 5-pole terminal block is limited to I_{max} = 4 A	
	With flat connectors, VDE 0630 and SEV standards specify use of insulating sleeve No. 280-0010-00.	
Thermal	Operating temperature	– 25°C to + 55°C
	Storage temperature	– 40°C to + 85°C
	Continuous current $I_{th\ max}$	6 A, up to 3-pole terminal block
		4 A, with 4 and 5-pole terminal blocks
Mechanical	Useful life	2 million operations
	Contact gap	2 x 0,65 mm, emerg. Stop element > 2 x 1,5 mm
	Contact cleaning path	2 x 0,6 mm
	Bounce time	0,5 ms typical
	Operating force	2 N approx. per contact element
	Weight	3 g approx.

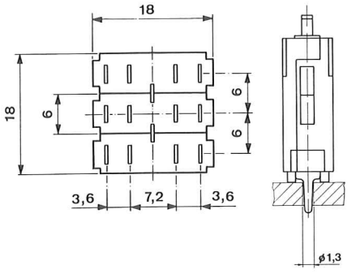
Contact element



Emergency Stop element



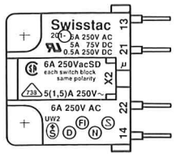
PCB connection



Standard contact element

These have duplicate snap breaking contacts. The long cleaning path ensures excellent self-cleaning. The multi-coated contacts are intended for general-purpose use. The top coat is 2 µm of gold. Each contact element consists of a normally closed (NC) contact and a normally open (NO) contact. They are designed for normal switching frequency to VDE 0630.

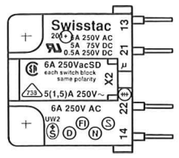
Materials	Housing	Thermoplastic (PETP) fire-resistant to UL 94 V0
	Contact	AgNi, 2 µm gold-plated
	Contact holder	Brass or CuBe
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
Useful life	Full load	> 10^4 load cycles
	Reduced load	> 2 x 10^6 load cycles
Identification		XXX⊖



Contact element for uprated switching frequency

These have two snap breaking contacts. The long cleaning path ensures excellent self-cleaning. The multi-coated contacts are intended for general-purpose use. The top coat is 2 µm of gold. Each contact element consists of a normally closed (NC) contact and a normally open (NO) contact. The units are designed for uprated switching frequency to VDE 0630.

Materials	Housing	Duroplast (DAP) fire-resistant to UL 94 V0
	Contact	AgNi, 2 µm gold-plated
	Contact holder	Brass or CuBe
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
Useful life	Full load	> 5 x 10^4 load cycles
	Reduced load	> 2 x 10^6 load cycles
Identification		XXX⊕ ⋕ sign nearest to VDE-approval



Emergency Stop element

These have a rigid contact brigde. This has a positive opening action and consists of a normally closed (NC) contact only. The multi-coated contacts are intended for general-purpose use and are finished with 2 µm of gold. The emergency Stop element is designed for uprated switching frequency to VDE 0630.

Materials	Housing	Duroplast (DAP) fire-resistant to UL 94 V0
	Contact	AgNi, 2 µm gold-plated
	Contact holder	Brass or CuBe
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
Useful life	Full load	> 5 x 10^4 load cycles
	Reduced load	> 2 x 10^6 load cycles

Diode and twin-diode element

performs no switching function. The diodes are soldered in the element housing between the terminals.

Materials	Housing	Thermoplastic (PETP) fire-resistant to UL 94 V0
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
	Diode	1 N / 4007, I_{max} = 1 A, U_{block} = 1000 V

Dummy element

is inserted at otherwise vacant places in the terminal block. Dummy elements have no metal parts and no electrical function.

Materials	Housing	Thermoplastic (PBT) fire-resistant to UL 94 V0

Multi LED (light-emitting diode)

Multi LEDs have a number of features that distinguish them from conventional light-emitting diodes.
Multi LEDs are supplied mounted in bases complete with series resistor.

Features
- 6-chip light-emitting diode (LED)
- minimum power consumption
- minimum thermal load
- long life
- up to 6 times brighter than standard LEDs
- immune to interference
- compatible with incandescent lamps MG T 1¾ and T 5,5
- protective diode

Colours: red, yellow, green

Base
- midget grooved T 1¾
- T 5,5

Thermal

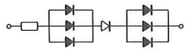
Ambient temperature	– 20°C to + 60°C
Storage temperature	– 30°C to + 80°C

Electrical

Voltage	6 V to 48 V DC
Life	> 50'000 hours
Light output	used to best effect if lens is transparent
Lamp connection	X1 = anode

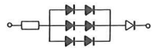
Electrical — Limit data	at T_U = 25°C ± 3°C			
Voltage V	6	12	24	48
Forward voltage U_F = max. in V	6,3	12,6	25,2	50,4
Reverse voltage (U_R) in V with protective diode	108	116	128	128
Reverse current in µA at U_R = max.	100	100	100	100
Nominal forward current (I_F) in mA	45	25	12,5	12,5
Max. power loss (P_O) mW	380	380	380	760

Circuit for 6 V DC



Anode

Circuit for 12 V DC



Anode

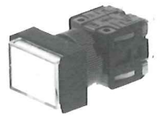
Circuit for 24 V, 48 V DC

Anode

Optical — Limit data	at T_U = 25°C ± 3°C		
Colours	red	yellow	green
Brightness on axis (I_V) — U_F = nom.	50 mcd	30 mcd	30 mcd
Strongest wavelength (λ_P) — U_F = nom.	630 nm	585 nm	565 nm
Spectrum waveband ($\Delta\lambda$) at 50 % intensity — U_F = nom.	40 nm	30 nm	30 nm

Key:
T_U = Ambient temperature
U_F = Nominal voltage

2



Illuminated pushbutton 35 mm

"It all started with a request from a customer. He was looking for a switch that had to work precisely and reliably every time, even if for years it was used only rarely after the system went into operation. That is just one example of how customers' needs constantly spur us to find new answers."

Hans E. Schweitzer
Company founder

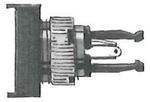
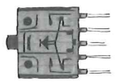
Consisting of: Lens  Actuator  Terminal block 

Diagram		Connection	Lampholder	Part No.	Protection class	Mounting depth[2] mm	Drilling plan No.	Dimension drawing No.
	Actuator							
Actuator, latching[1]	ø 18 mm		MG T 1¾	600-2000-00	IP 40		B 4	
Actuator, latching[1]	18 x 18 mm		MG T 1¾	600-4000-00	IP 40		B 4	
Actuator, latching[1]	18 x 24 mm		MG T 1¾	600-6000-00	IP 40		B 4	
Actuator, pulse	ø 18 mm		MG T 1¾	680-2000-00	IP 40		B 4	
Actuator, pulse	18 x 18 mm		MG T 1¾	680-4000-00	IP 40		B 4	
Actuator, pulse	18 x 24 mm		MG T 1¾	680-6000-00	IP 40		B 4	
Actuator for pilot lamp use	ø 18 mm		MG T 1¾	690-2000-00	IP 40		B 4	
Actuator for pilot lamp use	18 x 18 mm		MG T 1¾	690-4000-00	IP 40		B 4	
Actuator for pilot lamp use	18 x 24 mm		MG T 1¾	690-6000-00	IP 40		B 4	
Actuator, latching[1]	ø 18 mm		MG T 1¾	600-2000-W0	IP 65		B 2	
Actuator, latching[1]	18 x 18 mm		MG T 1¾	600-4000-W0	IP 65		B 2	
Actuator, latching[1]	18 x 24 mm		MG T 1¾	600-6000-W0	IP 65		B 2	
Actuator, pulse	ø 18 mm		MG T 1¾	680-2000-W0	IP 65		B 2	
Actuator, pulse	18 x 18 mm		MG T 1¾	680-4000-W0	IP 65		B 2	
Actuator, pulse	18 x 24 mm		MG T 1¾	680-6000-W0	IP 65		B 2	
Actuator for pilot lamp use	ø 18 mm		MG T 1¾	690-2000-W0	IP 65		B 2	
Actuator for pilot lamp use	18 x 18 mm		MG T 1¾	690-4000-W0	IP 65		B 2	
Actuator for pilot lamp use	18 x 24 mm		MG T 1¾	690-6000-W0	IP 65		B 2	
	Terminal block							
	1 NC + 1 NO	s/p		601-0000-00		35[2]		M 2
	2 NC + 2 NO	s/p		602-0000-00		35[2]		M 2
X1—▷◁—X2	1 NC + 1 NO + 1 di	s/p		608-0000-00		35[2]		M 2
X1—⊗—X2	1 NC + 1 NO + 2 di	s/p		609-0000-00		35[2]		M 2
	for pilot lamp	s/p		600-0000-00		35[2]		M 2
13—▷◁—14	for pilot lamp + 1 di	s/p		606-0000-00		35[2]		M 2
21—▷◁—22	for pilot lamp + 2 di	s/p		607-0000-00		35[2]		M 2
	1 NC + 1 NO	pcb		601-0000-0P		32[2]		M 12
	2 NC + 2 NO	pcb		602-0000-0P		32[2]		M 12
13 21 22 14	1 NC + 1 NO + 1 di	pcb		608-0000-0P		32[2]		M 12
NO NC NC NO	1 NC + 1 NO + 2 di	pcb		609-0000-0P		32[2]		M 12
	for pilot lamp	pcb		600-0000-0P		32[2]		M 12
	for pilot lamp + 1 di	pcb		606-0000-0P		32[2]		M 12
	for pilot lamp + 2 di	pcb		607-0000-0P		32[2]		M 12

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
X1 = anode lamp terminal
NC = normally closed contact
NO = normally open contact
MG = midget grooved
di = diode

[1] Convertible to pulse operation, see page 2.4
[2] Depth including front mount
[3] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the actuator from twisting.

Ordering example:
Actuator, latching 600-6000-W0
Terminal block 601-0000-00 (see following note)
Lens 600-5170-00

Note: For **uprated switching frequency,** order the appropriate terminal block by replacing the first dash in the Part No. with a +. Example: 601+0000-00

Lamps: Incandescent bulbs, glowlamps and LEDs must be ordered separately (see section 13 "Accessories").

Type	Colour	Part No. ø 18 mm	Part No. 18 x 18 mm	Part No. 18 x 24 mm
	Lens			
Translucent	orange	600-1110-00	600-3110-00	600-5110-00
	red	600-1120-00	600-3120-00	600-5120-00
	green	600-1140-00	600-3140-00	600-5140-00
	blue	600-1150-00	600-3150-00	600-5150-00
	white	600-1160-00	600-3160-00	600-5160-00
	yellow	600-1170-00	600-3170-00	600-5170-00
	[1] grey	600-1180-00	600-3180-00	600-5180-00
	[1] black	600-1190-00	600-3190-00	600-5190-00
Transparent (recommended for glowlamps and LEDs)	orange	600-1210-00	600-3210-00	600-5210-00
	red	600-1220-00	600-3220-00	600-5220-00
	green	600-1240-00	600-3240-00	600-5240-00
	blue	600-1250-00	600-3250-00	600-5250-00
	white	600-1260-00	600-3260-00	600-5260-00
	yellow	600-1270-00	600-3270-00	600-5270-00
	Flap guard			
Transparent, protects against accidental operation. Hinged, sealable.			18 x 18 mm 	18 x 24 mm 
for IP 40			200-4008-00	200-6008-00
for IP 65			200-4008-W0	200-6008-W0
	Blanking plate			
IP 40		ø 18 mm 	18 x 18 mm 	18 x 24 mm 
	grey	200-1006-00	200-3006-00	200-5006-00
	black	200-2006-00	200-4006-00	200-6006-00
IP 65		ø 18 mm 	18 x 18 mm 	18 x 24 mm 
	black	200-2006-W0	200-4006-W0	200-6006-W0

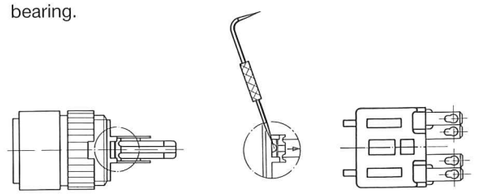
Key: [1] opaque

Engraving

For engraving, the position of the lens must agree with the position of the pushbutton or pilot lamp. The lens can, however, be mounted turned through 180°.

Pulse mode

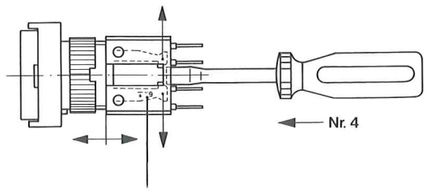
Any latch-type 35 mm illuminated pushbutton can be converted later to pulse mode. To do this, set the switch to the neutral position and remove the toggle bearing.



Mounting instructions

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

To detach terminal block



Note: Type-identification on legs of actuator

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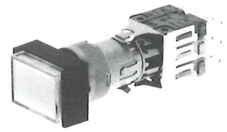


Illuminated pushbutton 55-70 mm

"The fact that we now work with Uniswitch illuminated pushbuttons really goes back to a suggestion by a customer. What made us decide was that the new buttons can be fitted in existing fascia boards whithout too much modification. And with Uniswitch, quality is taken for granted: we know we can rely 100% on SWISSTAC without doing our own tests."

Christian Stettler
Production Manager, Electronics
Netstal-Maschinen AG, Näfels

Constisting of:		Lens	Bezel	Illuminated pushbutton			
Diagram		Connection	Lampholder	Part No.	Mounting depth mm	Drilling plan No.	Dimension drawing No
	Illuminated pushbutton latch mode (convertible to pulse mode)						
X1 X2	1 NC + 1 NO	s/p	MG T 1¾	901-.000-00	55	B 1 [1]	M 1
X1 X2	2 NC + 2 NO	s/p	MG T 1¾	902-.000-00	55	B 1 [1]	M 1
	3 NC + 3 NO	s/p	MG T 1¾	903-.000-00	55	B 1 [1]	M 1
13 21 22 14	4 NC + 4 NO	s/p	MG T 1¾	904-.000-00	55	B 1 [1]	M 1
NO NC NC NO	5 NC + 5 NO	s/p	MG T 1¾	905-.000-00	55	B 1 [1]	M 1
X1 X2	1 NC + 1 NO	pcb	MG T 1¾	901-.000-0P	52	B 1 [1]	M 11
X1 X2	2 NC + 2 NO	pcb	MG T 1¾	902-.000-0P	52	B 1 [1]	M 11
	3 NC + 3 NO	pcb	MG T 1¾	903-.000-0P	52	B 1 [1]	M 11
13 21 22 14	4 NC + 4 NO	pcb	MG T 1¾	904-.000-0P	52	B 1 [1]	M 11
NO NC NC NO	5 NC + 5 NO	pcb	MG T 1¾	905-.000-0P	52	B 1 [1]	M 11
X1 X2	1 NC + 1 NO	s/p	T 5.5	801-.000-00	70	B 1 [1]	M 1
X1 X2	2 NC + 2 NO	s/p	T 5.5	802-.000-00	70	B 1 [1]	M 1
	3 NC + 3 NO	s/p	T 5.5	803-.000-00	70	B 1 [1]	M 1
13 21 22 14	4 NC + 4 NO	s/p	T 5.5	804-.000-00	70	B 1 [1]	M 1
NO NC NC NO	5 NC + 5 NO	s/p	T 5.5	805-.000-00	70	B 1 [1]	M 1
X1 X2	1 NC + 1 NO	pcb	T 5.5	801-.000-0P	67	B 1 [1]	M 11
X1 X2	2 NC + 2 NO	pcb	T 5.5	802-.000-0P	67	B 1 [1]	M 11
	3 NC + 3 NO	pcb	T 5.5	803-.000-0P	67	B 1 [1]	M 11
13 21 22 14	4 NC + 4 NO	pcb	T 5.5	804-.000-0P	67	B 1 [1]	M 11
NO NC NC NO	5 NC + 5 NO	pcb	T 5.5	805-.000-0P	67	B 1 [1]	M 11

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
X1 = anode lamp terminal
MG = midget grooved
[1] IP 65 bezels require drilling plan B 2
NC = normally closed contact
NO = normally open contact

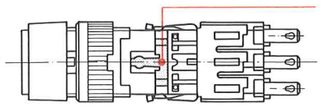
Ordering example:

Illuminated pushbutton	901-.000-00	(see following note)
Bezel	200-6000-00	
Lens	200-5170-00	

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 901+.000-00

Lamps: Incandescent bulbs, glowlamps and LEDs must be ordered separately (see section 13 “Accessories”)

Pulse mode:



To convert the illuminated pushbutton to pulse mode, remove the spring and take out the retaining pin underneath.

Swisstac

For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

Type	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Bezel					
		 Ø 18 mm	 18 x 18 mm	 18 x 24 mm	 Ø 24 mm	 24 x 24 mm
	grey	200-1000-00	200-3000-00	200-5000-00	200-7000-00	200-9000-00
	black	200-2000-00	200-4000-00	200-6000-00	200-8000-00	200-0000-00
Flush-mounted bezel incl. fixing bracket	The mounting depth is increased by 7 mm. Dim. drawing M14 Drilling plan B3			 18 x 24 mm		
	grey			200-5000-V0		
	black			200-6000-V0		
	Lens					
		 Ø 18 mm	 18 x 18 mm	 18 x 24 mm	 Ø 24 mm	 24 x 24 mm
Translucent	orange	200-1110-00	200-3110-00	200-5110-00	200-7110-00	200-9110-00
	red	200-1120-00	200-3120-00	200-5120-00	200-7120-00	200-9120-00
	green	200-1140-00	200-3140-00	200-5140-00	200-7140-00	200-9140-00
	blue	200-1150-00	200-3150-00	200-5150-00	200-7150-00	200-9150-00
	white	200-1160-00	200-3160-00	200-5160-00	200-7160-00	200-9160-00
	yellow	200-1170-00	200-3170-00	200-5170-00	200-7170-00	200-9170-00
	[1] grey	200-1180-00	200-3180-00	200-5180-00	200-7180-00	200-9180-00
	[1] black	200-1190-00	200-3190-00	200-5190-00	200-7190-00	200-9190-00
Transparent recommended for glowlamps and LEDs)	orange	200-1210-00	200-3210-00	200-5210-00	200-7210-00	200-9210-00
	red	200-1220-00	200-3220-00	200-5220-00	200-7220-00	200-9220-00
	green	200-1240-00	200-3240-00	200-5240-00	200-7240-00	200-9240-00
	blue	200-1250-00	200-3250-00	200-5250-00	200-7250-00	200-9250-00
	white	200-1260-00	200-3260-00	200-5260-00	200-7260-00	200-9260-00
	yellow	200-1270-00	200-3270-00	200-5270-00	200-7270-00	200-9270-00

Lens for flush-mounted bezel

18 x 24 mm

Transparent recommended for glowlamps and LEDs)	orange	200-5210-V0
	red	200-5220-V0
	green	200-5240-V0
	blue	200-5250-V0
	white	200-5260-V0
	yellow	200-5270-V0
Translucent	Diffuser for lens transparent	200-5160-V0

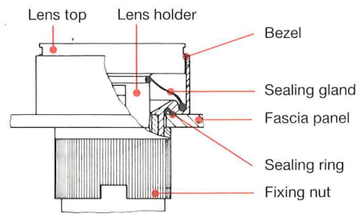
Key: [1] opaque

Subject to modification

Swisstac

Type	Colour	Part No. ø 24 mm	Part No. 24 x 24 mm
	Bezel		
	complete with sealing ring		
	grey	200-7000-W0	200-9000-W0
	black	200-8000-W0	200-0000-W0
	Lens		
	complete with sealing gland		
Translucent	orange	200-7110-W0	200-9110-W0
	red	200-7120-W0	200-9120-W0
	green	200-7140-W0	200-9140-W0
	blue	200-7150-W0	200-9150-W0
	white	200-7160-W0	200-9160-W0
	yellow	200-7170-W0	200-9170-W0
	[2] grey	200-7180-W0	200-9180-W0
	[2] black	200-7190-W0	200-9190-W0
Transparent (recommended for glowlamps and LEDs)	orange	200-7210-W0	200-9210-W0
	red	200-7220-W0	200-9220-W0
	green	200-7240-W0	200-9240-W0
	blue	200-7250-W0	200-9250-W0
	white	200-7260-W0	200-9260-W0
	yellow	200-7270-W0	200-9270-W0
	Seal		
IP 65	to fit ø 24 mm and 24 x 24 mm		
Sealing gland		200-7009-W0	
Sealing ring			200-9009-W0

Note:



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

Key:

[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the actuator from twisting.
[2] opaque

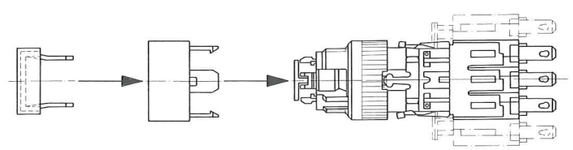
Type	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Mushroom lens IP 40					
	can be used only with diameter 18 mm bezel.			18 x 24 mm	ø 24 mm	24 x 24 mm
aterial paque	red			200-5320-00	200-7320-00	200-9320-00
	green			200-5340-00	200-7340-00	200-9340-00
	yellow			200-5370-00	200-7370-00	200-9370-00
	black			200-5390-00	200-7390-00	200-9390-00
	Splash proof, two parts					
	Membrane of PVC, protection class IP 65. Incandescent lamps can be changed from the front with no difficulty.		18 x 18 mm (24 x 24 mm)	18 x 24 mm (24 x 30 mm)		
			200-3009-W0	200-5009-W0		
	Flap guard					
	transparent, protects against accidental operation. Hinged, sealable.		18 x 18 mm	18 x 24 mm		24 x 24 mm
r IP 40 r IP 65			200-4008-00	200-6008-00		200-9008-00 200-9008-W0
	Aluminium guards					
	for bezel sizes	ø 18 mm (ø 20 mm)	18 x 18 mm (18 x 20 mm)	18 x 24 mm (20 x 24 mm)		
		200-1007-00	200-3007-00	200-5007-00		

Type	Colour	Part No.	Part No.	Part No.	Part No.
	Blanking plate				
IP 40		 ø 18 mm	 18 x 18 mm	 18 x 24 mm	
	grey black	200-1006-00 200-2006-00	200-3006-00 200-4006-00	200-5006-00 200-6006-00	
IP 65		 ø 18 mm			 24 x 24 mm
	black	200-2006-W0			200-0006-W0

Mounting instructions

The switch is mounted in a fascia/control panel in two steps:
1. Insert switch in fascia/control panel
2. Snap on bezel and tighten fixing nut

Lens Bezel Illuminated pushbutton



Pilot lamp 30-70 mm

"I never realised electrical engineering covers such a wide area. I hadn't the faintest idea until I came to work here. Luckily, I've got a boss I can always ask. He takes the time it needs, and is training me systematically. So now volts, watts and amps and the like are no longer the great unknown."

Claudia Berz
Sales Administration Clerk

Consisting of: Lens, Bezel, Pilot lamp



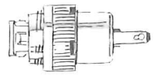
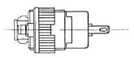
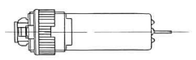
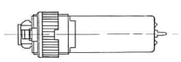
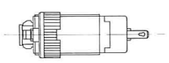
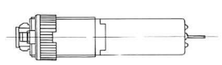
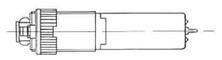


Diagram		Connection	Lampholder	Part No.	Mounting depth mm	Drilling plan No.	Dimensi drawing
	Pilot lamp						
		s/p	MG T 1¾	990-.000-K0	30	B1[2]	M3
		[1] s/p	MG T 1¾	990-.000-00	55	B1[2]	M4
		pcb	MG T 1¾	990-.000-0P	52	B1[2]	M13
		s/p	T 5.5	890-.000-K0	45	B1[2]	M3
		[1] s/p	T 5.5	890-.000-00	70	B1[2]	M4
		pcb	T 5.5	890-.000-0P	67	B1[2]	M13

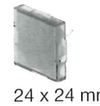
Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
X1 = anode lamp terminal
MG = midget grooved

[1] This lamp is the same length as the equivalent illuminated pushbutton and matches both PCB adapter and multiple connector.
[2] Bezels to protection class IP 65 require drilling plan B 2

Ordering example:

Pilot lamp	990-.000-K0
Bezel	200-1000-00
Lens	200-1120-00

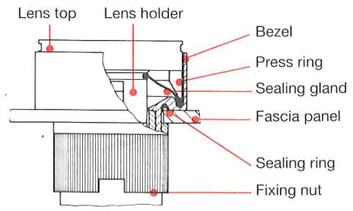
Lamps: Incandescent bulbs, glowlamps and LEDs must be ordered separately (see section 13 “Accessories”)

pe	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Bezel					
		 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
	grey black	200-1000-00 200-2000-00	200-3000-00 200-4000-00	200-5000-00 200-6000-00	200-7000-00 200-8000-00	200-9000-00 200-0000-00
ush-mounted bezel cl. fixing bracket	The mounting depth is increased by 7 mm. Dim. drawing M14 Drilling plan B3			 18 x 24 mm		
	grey black			200-5000-V0 200-6000-V0		
	Lens					
		 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
anslucent	orange red green blue white yellow	200-1110-00 200-1120-00 200-1140-00 200-1150-00 200-1160-00 200-1170-00	200-3110-00 200-3120-00 200-3140-00 200-3150-00 200-3160-00 200-3170-00	200-5110-00 200-5120-00 200-5140-00 200-5150-00 200-5160-00 200-5170-00	200-7110-00 200-7120-00 200-7140-00 200-7150-00 200-7160-00 200-7170-00	200-9110-00 200-9120-00 200-9140-00 200-9150-00 200-9160-00 200-9170-00
ansparent ecommended for lowlamps and LEDs)	orange red green blue white yellow	200-1210-00 200-1220-00 200-1240-00 200-1250-00 200-1260-00 200-1270-00	200-3210-00 200-3220-00 200-3240-00 200-3250-00 200-3260-00 200-3270-00	200-5210-00 200-5220-00 200-5240-00 200-5250-00 200-5260-00 200-5270-00	200-7210-00 200-7220-00 200-7240-00 200-7250-00 200-7260-00 200-7270-00	200-9210-00 200-9220-00 200-9240-00 200-9250-00 200-9260-00 200-9270-00
	Lens for flush-mounted bezel			 18 x 24 mm		
ansparent ecommended for lowlamps and LEDs)	orange red green blue white yellow			200-5210-V0 200-5220-V0 200-5240-V0 200-5250-V0 200-5260-V0 200-5270-V0		
anslucent	Diffuser for lens transparent			200-5160-V0		

.3

Type	Colour	Part No. ø 24 mm	Part No. 24 x 24 mm
	Bezel		
	Complete with sealing ring		
	grey	200-7000-W0	200-9000-W0
	black	200-8000-W0	200-0000-W0
	Lens		
	complete with sealing gland		
Translucent	orange	200-7110-W0	200-9110-W0
	red	200-7120-W0	200-9120-W0
	green	200-7140-W0	200-9140-W0
	blue	200-7150-W0	200-9150-W0
	white	200-7160-W0	200-9160-W0
	yellow	200-7170-W0	200-9170-W0
Transparent (recommended for glowlamps and LEDs)	orange	200-7210-W0	200-9210-W0
	red	200-7220-W0	200-9220-W0
	green	200-7240-W0	200-9240-W0
	blue	200-7250-W0	200-9250-W0
	white	200-7260-W0	200-9260-W0
	yellow	200-7270-W0	200-9270-W0
	Seal		
	Obligatory for pilot lamp		
	to fit ø 24 mm and 24 x 24 mm		200-8009-W0

Note:



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

Key:

[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the actuator from twisting.

Colour	Part No.	Part No. 18 x 18 mm (24 x 24 mm)	Part No. 18 x 24 mm (24 x 30 mm)	Part No.	Part No.
Splash proof, two parts					
Membrane of PVC, protection class IP 65. Incandescent lamps can be changed from the front with no difficulty.					
		200-3009-W0	200-5009-W0		
Blanking plate					
	ø 18 mm	18 x 18 mm	18 x 24 mm		
grey	200-1006-00	200-3006-00	200-5006-00		
black	200-2006-00	200-4006-00	200-6006-00		
	ø 18 mm				24 x 24 mm
black	200-2006-W0				200-0006-W0
Seal					
to fit ø 24 mm and 24 x 24 mm					
ealing gland			200-7009-W0		
ealing ring			200-9009-W0		

5

Key switch 45-70 mm

> Uniswitch has once again predicted early on that key switches will increasingly control authorized access, and is the first to develop a high-tech key switch of the new generation. Made of a new, high grade carbon material, that has withstood the toughest durability tests far beyond the specified standards.

Werner Suter
Junior Product Manager
Basix für Elektronik AG, Zurich

Swisstac

Consisting of: Bezel

Switch body and terminal block ready assembled

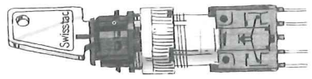


Diagram	Connection	Function		Key removable in position	Part No.	Mounting depth mm	Drilling plan No.	Dimensio drawing
		2-position key switch, with 2 keys						
13 21 22 14 NO NC NC NO	1 NC + 1 NO	s/p	latching	A + C	761- .401-00	45	B 4	M 7
	2 NC + 2 NO	s/p	latching	A + C	762- .401-00	45	B 4	M 7
13 21 22 14 NO NC NC NO	1 NC + 1 NO	pcb	latching	A + C	761- .401-0P	42	B 4	M17
	2 NC + 2 NO	pcb	latching	A + C	762- .401-0P	42	B 4	M17
13 21 22 14 NO NC NC NO	1 NC + 1 NO	s/p	latching	A	771- .401-00	45	B 4	M 7
	2 NC + 2 NO	s/p	latching	A	772- .401-00	45	B 4	M 7
13 21 22 14 NO NC NC NO	1 NC + 1 NO	pcb	latching	A	771- .401-0P	42	B 4	M17
	2 NC + 2 NO	pcb	latching	A	772- .401-0P	42	B 4	M17
13 21 22 14 NO NC NC NO	1 NC + 1 NO	s/p	pulse	A	781- .401-00	45	B 4	M 7
	2 NC + 2 NO	s/p	pulse	A	782- .401-00	45	B 4	M 7
13 21 22 14 NO NC NC NO	1 NC + 1 NO	pcb	pulse	A	781- .401-0P	42	B 4	M17
	2 NC + 2 NO	pcb	pulse	A	782- .401-0P	42	B 4	M17

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact

Ordering example:

2-position key switch	761- .401-00	(see following note)
Bezel	200-6001-00	

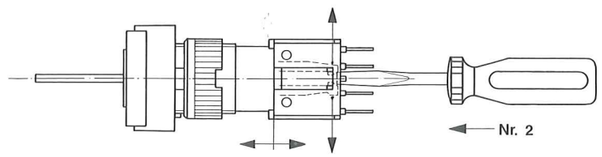
Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 761+.401-00

ype	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Bezel					
	supplied fitted	ø 18 mm	18 x 18 mm	18 x 24 mm	ø 24 mm	24 x 24 mm
	grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
	black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
	Blanking plate					
		ø 18 mm	18 x 18 mm	18 x 24 mm		
	grey	200-1006-00	200-3006-00	200-5006-00		
	black	200-2006-00	200-4006-00	200-6006-00		

Mounting instructions

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

To detach terminal block



2-position key switch 45 mm

Consisting of: Bezel

Switch body and terminal block ready assembled

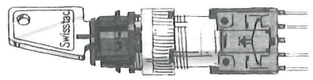


Diagram	Connection	Function		Key removable in position	Part No.	Mounting depth mm	Drilling plan No.	Dimens. drawing
		2-position key switch, with 2 keys						
13 21 22 14 NO NC NC NO	1 NC + 1 NO s/p	latching	A c	A + C	761-.401-W0	45	B 2	M 7
	2 NC + 2 NO s/p	latching		A + C	762-.401-W0	45	B 2	M 7
13 21 22 14 NO NC NC NO	1 NC + 1 NO pcb	latching	A c	A + C	761-.401-WP	42	B 2	M 17
	2 NC + 2 NO pcb	latching		A + C	762-.401-WP	42	B 2	M 17
13 21 22 14 NO NC NC NO	1 NC + 1 NO s/p	latching	A c	A	771-.401-W0	45	B 2	M 7
	2 NC + 2 NO s/p	latching		A	772-.401-W0	45	B 2	M 7
13 21 22 14 NO NC NC NO	1 NC + 1 NO pcb	latching	A c	A	771-.401-WP	42	B 2	M 17
	2 NC + 2 NO pcb	latching		A	772-.401-WP	42	B 2	M 17
13 21 22 14 NO NC NC NO	1 NC + 1 NO s/p	pulse	A c	A	781-.401-W0	45	B 2	M 7
	2 NC + 2 NO s/p	pulse		A	782-.401-W0	45	B 2	M 7
13 21 22 14 NO NC NC NO	1 NC + 1 NO pcb	pulse	A c	A	781-.401-WP	42	B 2	M 17
	2 NC + 2 NO pcb	pulse		A	782-.401-WP	42	B 2	M 17

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Ordering example:

2-position key switch	761-.401-W0	(see following note)
Bezel	200-6001-00	

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 761+.401-W0

Swisstac

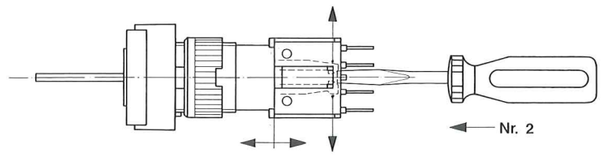
For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		 24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

Mounting instructions

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

To detach terminal block



Subject to modification

Swisstac

Consisting of: Bezel

Switch body and terminal block ready assembled

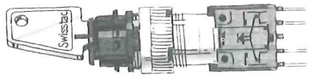


Diagram	Connection	Function		Key removable in position [2]	Part No.	Mounting depth mm	Drilling plan No.	Dimens. drawing
		3-position key switch, with 2 keys						
	2 NC + 2 NO s/p	latch-0-latch	B A C	B + A + C	712-.401-00	45	B 4	M 7
	2 NC + 2 NO s/p	0-latch-latch[1]	B A C	B + A + C	722-.401-00	45	B 4	M 7
	2 NC + 2 NO s/p	pulse-0-pulse	B A C	A	732-.401-00	45	B 4	M 7
	2 NC + 2 NO s/p	latch-0-pulse	B A C	B + A	742-.401-00	45	B 4	M 7
	2 NC + 2 NO s/p	pulse-0-latch	B A C	A + C	752-.401-00	45	B 4	M 7
	2 NC + 2 NO pcb	latch-0-latch	B A C	B + A + C	712-.401-0P	42	B 4	M 17
	2 NC + 2 NO pcb	0-latch-latch[1]	B A C	B + A + C	722-.401-0P	42	B 4	M 17
	2 NC + 2 NO pcb	pulse-0-pulse	B A C	A	732-.401-0P	42	B 4	M 17
	2 NC + 2 NO pcb	latch-0-pulse	B A C	B + A	742-.401-0P	42	B 4	M 17
	2 NC + 2 NO pcb	pulse-0-latch	B A C	A + C	752-.401-0P	42	B 4	M 17

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

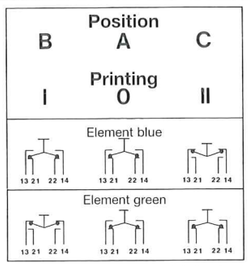
Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

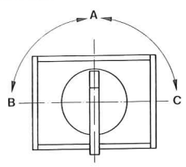
Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[2] Other possibilities are available on request.

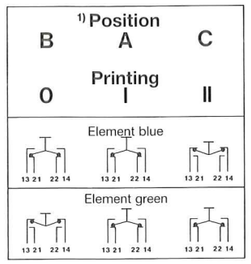
Ordering example: 3-position key switch 712-.401-00 (see following note)
Bezel 200-6002-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 712+.401-00

Diagram:







Swisstac

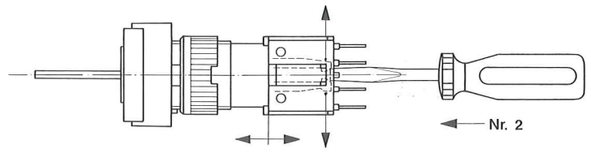
For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

e	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Bezel					
	supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
	grey black	200-1002-00 200-2002-00	200-3002-00 200-4002-00	200-5002-00 200-6002-00	200-7002-00 200-8002-00	200-9002-00 200-0002-00
		 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
	grey black	200-1003-00 200-2003-00	200-3003-00 200-4003-00	200-5003-00 200-6003-00	200-7003-00 200-8003-00	200-9003-00 200-0003-00
	Blanking plate					
		 ø 18 mm	 18 x 18 mm	 18 x 24 mm		
	grey black	200-1006-00 200-2006-00	200-3006-00 200-4006-00	200-5006-00 200-6006-00		

Mounting instructions

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

To detach terminal block



Subject to modification

Swisstac

Consisting of: Bezel

Switch body and terminal block ready assembled

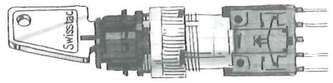


Diagram	Connection	Function		Key removable in position [3]	Part No.	Mounting depth mm	Drilling plan No.	Dimen drawin
		3-position key switch, with 2 keys						
	2 NC + 2 NO	s/p	latch-0-latch	B + A + C	712- . 401-W0	45	B 2	M 7
	2 NC + 2 NO	s/p	0-latch-latch [2]	B + A + C	722- . 401-W0	45	B 2	M 7
	2 NC + 2 NO	s/p	pulse-0-pulse	A	732- . 401-W0	45	B 2	M 7
	2 NC + 2 NO	s/p	latch-0-pulse	B + A	742- . 401-W0	45	B 2	M 7
	2 NC + 2 NO	s/p	pulse-0-latch	A + C	752- . 401-W0	45	B 2	M 7
	2 NC + 2 NO	pcb	latch-0-latch	B + A + C	712- . 401-WP	42	B 2	M 17
	2 NC + 2 NO	pcb	0-latch-latch [2]	B + A + C	722- . 401-WP	42	B 2	M 17
	2 NC + 2 NO	pcb	pulse-0-pulse	A	732- . 401-WP	42	B 2	M 17
	2 NC + 2 NO	pcb	latch-0-pulse	B + A	742- . 401-WP	42	B 2	M 17
	2 NC + 2 NO	pcb	pulse-0-latch	A + C	752- . 401-WP	42	B 2	M 17

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

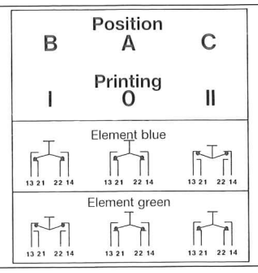
Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

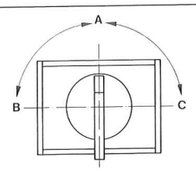
Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1] for IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.
[3] Other possibilities are available on request.

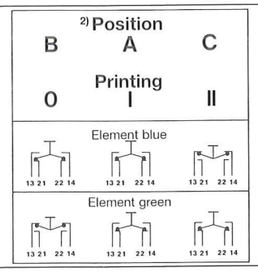
Ordering example: 3-position key switch 712- . 401-W0 (see following note)
Bezel 200-6002-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 712+ . 401-W0

Diagram:







Swisstac

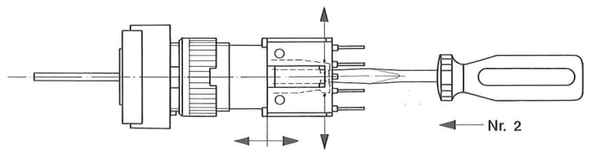
For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1002-00	200-3002-00	200-5002-00	200-7002-00	200-9002-00
black	200-2002-00	200-4002-00	200-6002-00	200-8002-00	200-0002-00
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1003-00	200-3003-00	200-5003-00	200-7003-00	200-9003-00
black	200-2003-00	200-4003-00	200-6003-00	200-8003-00	200-0003-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		 24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

Mounting instructions

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

To detach terminal block



Subject to modification

Swisstac

Consisting of: Bezel

Switch body and terminal block ready assembled

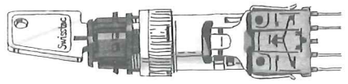


Diagram	Connection	Function	Key removable in position	Part No.	Mounting depth mm	Drilling plan No.	Dimen drawin
		2-position key switch, with 2 keys					
	1 NC + 1 NO	s/p	latching	A + C	911- .401-00	55	B 4	M 5
	2 NC + 2 NO	s/p	latching	A + C	912- .401-00	55	B 4	M 5
	3 NC + 3 NO	s/p	latching	A + C	913- .401-00	55	B 4	M 5
	4 NC + 4 NO	s/p	latching	A + C	914- .401-00	55	B 4	M 5
	5 NC + 5 NO	s/p	latching	A + C	915- .401-00	55	B 4	M 5
	1 NC + 1 NO	pcb	latching	A + C	911- .401-0P	52	B 4	M 15
	2 NC + 2 NO	pcb	latching	A + C	912- .401-0P	52	B 4	M 15
	3 NC + 3 NO	pcb	latching	A + C	913- .401-0P	52	B 4	M 15
	4 NC + 4 NO	pcb	latching	A + C	914- .401-0P	52	B 4	M 15
	5 NC + 5 NO	pcb	latching	A + C	915- .401-0P	52	B 4	M 15
	1 NC + 1 NO	s/p	latching	A	921- .401-00	55	B 4	M 5
	2 NC + 2 NO	s/p	latching	A	922- .401-00	55	B 4	M 5
	3 NC + 3 NO	s/p	latching	A	923- .401-00	55	B 4	M 5
	4 NC + 4 NO	s/p	latching	A	924- .401-00	55	B 4	M 5
	5 NC + 5 NO	s/p	latching	A	925- .401-00	55	B 4	M 5
	1 NC + 1 NO	pcb	latching	A	921- .401-0P	52	B 4	M 15
	2 NC + 2 NO	pcb	latching	A	922- .401-0P	52	B 4	M 15
	3 NC + 3 NO	pcb	latching	A	923- .401-0P	52	B 4	M 15
	4 NC + 4 NO	pcb	latching	A	924- .401-0P	52	B 4	M 15
	5 NC + 5 NO	pcb	latching	A	925- .401-0P	52	B 4	M 15
	1 NC + 1 NO	s/p	pulse	A	931- .401-00	55	B 4	M 5
	2 NC + 2 NO	s/p	pulse	A	932- .401-00	55	B 4	M 5
	3 NC + 3 NO	s/p	pulse	A	933- .401-00	55	B 4	M 5
	4 NC + 4 NO	s/p	pulse	A	934- .401-00	55	B 4	M 5
	5 NC + 5 NO	s/p	pulse	A	935- .401-00	55	B 4	M 5
	1 NC + 1 NO	pcb	pulse	A	931- .401-0P	52	B 4	M 15
	2 NC + 2 NO	pcb	pulse	A	932- .401-0P	52	B 4	M 15
	3 NC + 3 NO	pcb	pulse	A	933- .401-0P	52	B 4	M 15
	4 NC + 4 NO	pcb	pulse	A	934- .401-0P	52	B 4	M 15
	5 NC + 5 NO	pcb	pulse	A	935- .401-0P	52	B 4	M 15

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact

Ordering example: 2-position key switch 911- .401-00 (see following note)
Bezel 200-6001-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 911+.401-00

Swisstac

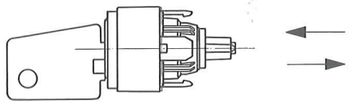
For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		
grey	200-1006-00	200-3006-00	200-5006-00		
black	200-2006-00	200-4006-00	200-6006-00		

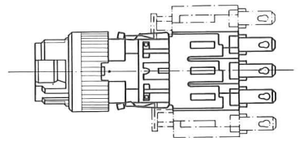
Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch 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.

Subject to modification

Swisstac

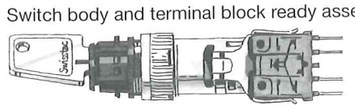
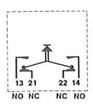
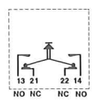
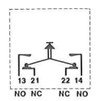
Consisting of: Bezel  Switch body and terminal block ready assembled 

Diagram	Connection	Function		Key removable in position	Part No.	Mounting depth mm	Drilling plan No.	Dimen drawin
	**2-position key switch,** with 2 keys							
	1 NC + 1 NO	s/p	latching	A + C	911- .401-W0	55	B 2	M 5
	2 NC + 2 NO	s/p	latching	A + C	912- .401-W0	55	B 2	M 5
	3 NC + 3 NO	s/p	latching	A + C	913- .401-W0	55	B 2	M 5
	4 NC + 4 NO	s/p	latching	A + C	914- .401-W0	55	B 2	M 5
	5 NC + 5 NO	s/p	latching	A + C	915- .401-W0	55	B 2	M 5
	1 NC + 1 NO	pcb	latching	A + C	911- .401-WP	52	B 2	M 15
	2 NC + 2 NO	pcb	latching	A + C	912- .401-WP	52	B 2	M 15
	3 NC + 3 NO	pcb	latching	A + C	913- .401-WP	52	B 2	M 15
	4 NC + 4 NO	pcb	latching	A + C	914- .401-WP	52	B 2	M 15
	5 NC + 5 NO	pcb	latching	A + C	915- .401-WP	52	B 2	M 15
	1 NC + 1 NO	s/p	latching	A	921- .401-W0	55	B 2	M 5
	2 NC + 2 NO	s/p	latching	A	922- .401-W0	55	B 2	M 5
	3 NC + 3 NO	s/p	latching	A	923- .401-W0	55	B 2	M 5
	4 NC + 4 NO	s/p	latching	A	924- .401-W0	55	B 2	M 5
	5 NC + 5 NO	s/p	latching	A	925- .401-W0	55	B 2	M 5
	1 NC + 1 NO	pcb	latching	A	921- .401-WP	52	B 2	M 15
	2 NC + 2 NO	pcb	latching	A	922- .401-WP	52	B 2	M 15
	3 NC + 3 NO	pcb	latching	A	923- .401-WP	52	B 2	M 15
	4 NC + 4 NO	pcb	latching	A	924- .401-WP	52	B 2	M 15
	5 NC + 5 NO	pcb	latching	A	925- .401-WP	52	B 2	M 15
	1 NC + 1 NO	s/p	pulse	A	931- .401-W0	55	B 2	M 5
	2 NC + 2 NO	s/p	pulse	A	932- .401-W0	55	B 2	M 5
	3 NC + 3 NO	s/p	pulse	A	933- .401-W0	55	B 2	M 5
	4 NC + 4 NO	s/p	pulse	A	934- .401-W0	55	B 2	M 5
	5 NC + 5 NO	s/p	pulse	A	935- .401-W0	55	B 2	M 5
	1 NC + 1 NO	pcb	pulse	A	931- .401-WP	52	B 2	M 15
	2 NC + 2 NO	pcb	pulse	A	932- .401-WP	52	B 2	M 15
	3 NC + 3 NO	pcb	pulse	A	933- .401-WP	52	B 2	M 15
	4 NC + 4 NO	pcb	pulse	A	934- .401-WP	52	B 2	M 15
	5 NC + 5 NO	pcb	pulse	A	935- .401-WP	52	B 2	M 15

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

Key: s/p = solder and plug-on terminal combined NC = normally closed contact
pcb = printed circuit board terminal NO = normally open contact
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Ordering example: 2-position key switch 911- .401-W0 (see following note)
Bezel 200-6001-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a **+**. Example: 911+ .401-W0

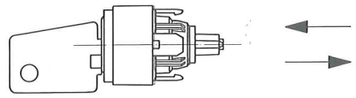
Swisstac

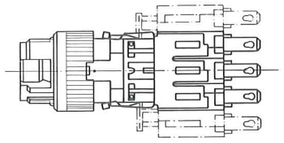
For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		 24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch 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.

Subject to modification

Swisstac

Consisting of: Bezel

Switch body and terminal block ready assembled

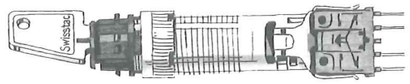
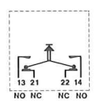
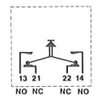
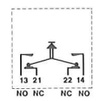


Diagram	Connection	Function		Key removable in position	Part No.	Mounting depth mm	Drilling plan No.	Dimens drawing
	**2-position key switch,** with 2 keys							
	1 NC + 1 NO	s/p	latching	A + C	811- .401-00	70	B 4	M 5
	2 NC + 2 NO	s/p	latching	A + C	812- .401-00	70	B 4	M 5
	3 NC + 3 NO	s/p	latching	A + C	813- .401-00	70	B 4	M 5
	4 NC + 4 NO	s/p	latching	A + C	814- .401-00	70	B 4	M 5
	5 NC + 5 NO	s/p	latching	A + C	815- .401-00	70	B 4	M 5
	1 NC + 1 NO	pcb	latching	A + C	811- .401-0P	67	B 4	M 15
	2 NC + 2 NO	pcb	latching	A + C	812- .401-0P	67	B 4	M 15
	3 NC + 3 NO	pcb	latching	A + C	813- .401-0P	67	B 4	M 15
	4 NC + 4 NO	pcb	latching	A + C	814- .401-0P	67	B 4	M 15
	5 NC + 5 NO	pcb	latching	A + C	815- .401-0P	67	B 4	M 15
	1 NC + 1 NO	s/p	latching	A	821- .401-00	70	B 4	M 5
	2 NC + 2 NO	s/p	latching	A	822- .401-00	70	B 4	M 5
	3 NC + 3 NO	s/p	latching	A	823- .401-00	70	B 4	M 5
	4 NC + 4 NO	s/p	latching	A	824- .401-00	70	B 4	M 5
	5 NC + 5 NO	s/p	latching	A	825- .401-00	70	B 4	M 5
	1 NC + 1 NO	pcb	latching	A	821- .401-0P	67	B 4	M 15
	2 NC + 2 NO	pcb	latching	A	822- .401-0P	67	B 4	M 15
	3 NC + 3 NO	pcb	latching	A	823- .401-0P	67	B 4	M 15
	4 NC + 4 NO	pcb	latching	A	824- .401-0P	67	B 4	M 15
	5 NC + 5 NO	pcb	latching	A	825- .401-0P	67	B 4	M 15
	1 NC + 1 NO	s/p	pulse	A	831- .401-00	70	B 4	M 5
	2 NC + 2 NO	s/p	pulse	A	832- .401-00	70	B 4	M 5
	3 NC + 3 NO	s/p	pulse	A	833- .401-00	70	B 4	M 5
	4 NC + 4 NO	s/p	pulse	A	834- .401-00	70	B 4	M 5
	5 NC + 5 NO	s/p	pulse	A	835- .401-00	70	B 4	M 5
	1 NC + 1 NO	pcb	pulse	A	831- .401-0P	67	B 4	M 15
	2 NC + 2 NO	pcb	pulse	A	832- .401-0P	67	B 4	M 15
	3 NC + 3 NO	pcb	pulse	A	833- .401-0P	67	B 4	M 15
	4 NC + 4 NO	pcb	pulse	A	834- .401-0P	67	B 4	M 15
	5 NC + 5 NO	pcb	pulse	A	835- .401-0P	67	B 4	M 15

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact

Ordering example: 2-position key switch 811- .401-00 (see following note)
Bezel 200-6001-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 811+ .401-00

Swisstac

For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

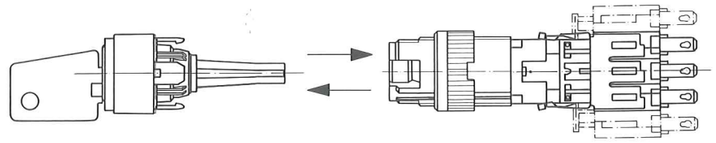
Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		
grey	200-1006-00	200-3006-00	200-5006-00		
black	200-2006-00	200-4006-00	200-6006-00		

Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch 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.

Subject to modification

Swisstac

2-position key switch 70 mm

Consisting of: Bezel

Switch body and terminal block ready assembled

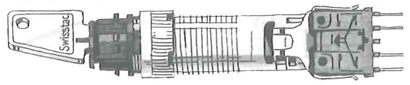
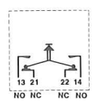
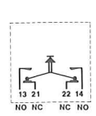
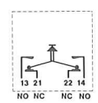
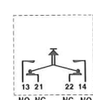


Diagram	Connection	Function		Key removable in position	Part No.	Mounting depth mm	Drilling plan No.	Dimens drawing
		2-position key switch, with 2 keys						
	1 NC + 1 NO	s/p	latching	A + C	811- .401-W0	70	B 2	M 5
	2 NC + 2 NO	s/p	latching	A + C	812- .401-W0	70	B 2	M 5
	3 NC + 3 NO	s/p	latching	A + C	813- .401-W0	70	B 2	M 5
	4 NC + 4 NO	s/p	latching	A + C	814- .401-W0	70	B 2	M 5
	5 NC + 5 NO	s/p	latching	A + C	815- .401-W0	70	B 2	M 5
	1 NC + 1 NO	pcb	latching	A + C	811- .401-WP	67	B 2	M 15
	2 NC + 2 NO	pcb	latching	A + C	812- .401-WP	67	B 2	M 15
	3 NC + 3 NO	pcb	latching	A + C	813- .401-WP	67	B 2	M 15
	4 NC + 4 NO	pcb	latching	A + C	814- .401-WP	67	B 2	M 15
	5 NC + 5 NO	pcb	latching	A + C	815- .401-WP	67	B 2	M 15
	1 NC + 1 NO	s/p	latching	A	821- .401-W0	70	B 2	M 5
	2 NC + 2 NO	s/p	latching	A	822- .401-W0	70	B 2	M 5
	3 NC + 3 NO	s/p	latching	A	823- .401-W0	70	B 2	M 5
	4 NC + 4 NO	s/p	latching	A	824- .401-W0	70	B 2	M 5
	5 NC + 5 NO	s/p	latching	A	825- .401-W0	70	B 2	M 5
	1 NC + 1 NO	pcb	latching	A	821- .401-WP	67	B 2	M 15
	2 NC + 2 NO	pcb	latching	A	822- .401-WP	67	B 2	M 15
	3 NC + 3 NO	pcb	latching	A	823- .401-WP	67	B 2	M 15
	4 NC + 4 NO	pcb	latching	A	824- .401-WP	67	B 2	M 15
	5 NC + 5 NO	pcb	latching	A	825- .401-WP	67	B 2	M 15
	1 NC + 1 NO	s/p	pulse	A	831- .401-W0	70	B 2	M 5
	2 NC + 2 NO	s/p	pulse	A	832- .401-W0	70	B 2	M 5
	3 NC + 3 NO	s/p	pulse	A	833- .401-W0	70	B 2	M 5
	4 NC + 4 NO	s/p	pulse	A	834- .401-W0	70	B 2	M 5
	5 NC + 5 NO	s/p	pulse	A	835- .401-W0	70	B 2	M 5
	1 NC + 1 NO	pcb	pulse	A	831- .401-WP	67	B 2	M 15
	2 NC + 2 NO	pcb	pulse	A	832- .401-WP	67	B 2	M 15
	3 NC + 3 NO	pcb	pulse	A	833- .401-WP	67	B 2	M 15
	4 NC + 4 NO	pcb	pulse	A	834- .401-WP	67	B 2	M 15
	5 NC + 5 NO	pcb	pulse	A	835- .401-WP	67	B 2	M 15

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 300.

Other arrangements: Four other standard lock arrangements are B2 301 – B2 304.
This extra designation must be stated when ordering.
Available to order are a further 95 lock arrangements, with or without master-key function.

Key: s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Ordering example:
2-position key switch 811- .401-W0 (see following note)
Bezel 200-6001-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a **+**. Example: 811+ .401-W0

Swisstac

For dimension drawings and drilling plans, see fold-out at rear.
Subject to modification

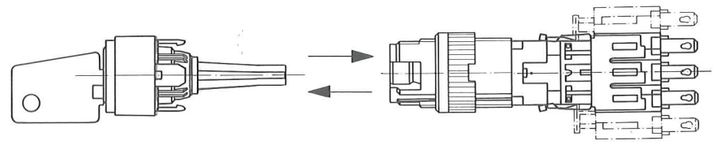
Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		 24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch 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.

Subject to modification

Swisstac

6

Lever switch 45-70 mm

> A small company like Uniswitch is very flexible. You can see what's going on, everyone knows everyone and knows what the others are doing. There's no need for involved, rigid official channels. Because of the clear-cut organization and especially our good communications, we are able to respond very quickly to market changes.

Werner Wälchli
Head of Accounts

2-position lever switch 45 mm

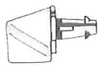
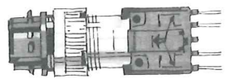
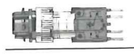
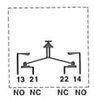
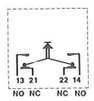
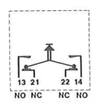
Consisting of:	Lever	Bezel	Switch body and terminal block ready assembled
			

Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimens drawing
	**2-position lever switch**						
	1 NC + 1 NO 2 NC + 2 NO	s/p s/p	latching latching	761- .700-00 762- .700-00	45 45	B 4 B 4	M 8 M 8
	1 NC + 1 NO 2 NC + 2 NO	pcb pcb	latching latching	761- .700-0P 762- .700-0P	42 42	B 4 B 4	M 18 M 18
	1 NC + 1 NO 2 NC + 2 NO	s/p s/p	pulse pulse	781- .700-00 782- .700-00	45 45	B 4 B 4	M 8 M 8
	1 NC + 1 NO 2 NC + 2 NO	pcb pcb	pulse pulse	781- .700-0P 782- .700-0P	42 42	B 4 B 4	M 18 M 18

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact

Ordering example:
2-position lever switch 761- .700-00 (see following note)
Bezel 200-6001-00
Lever 200- .604-00

Note:
For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 761+ .700-00

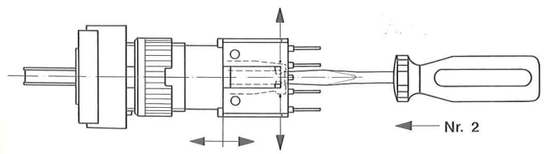
2-position lever switch 45 mm

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Lever					
supplied fitted				 short	 long
chromed				200-.604-00	200-.804-00
black				200-.704-00	200-.904-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		
grey	200-1006-00	200-3006-00	200-5006-00		
black	200-2006-00	200-4006-00	200-6006-00		

Mounting instructions

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

To detach terminal block



2-position lever switch 45 mm

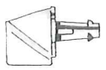
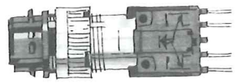
Consisting of:	Lever	Bezel	Switch body and terminal block ready assembled
			

Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimen drawi
	**2-position lever switch**						
	1 NC + 1 NO 2 NC + 2 NO	s/p s/p	latching latching		761- .700-W0 762- .700-W0	45 45	B 2 B 2	M 8 M 8
	1 NC + 1 NO 2 NC + 2 NO	pcb pcb	latching latching		761- .700-WP 762- .700-WP	42 42	B 2 B 2	M 18 M 18
	1 NC + 1 NO 2 NC + 2 NO	s/p s/p	pulse pulse		781- .700-W0 782- .700-W0	45 45	B 2 B 2	M 8 M 8
	1 NC + 1 NO 2 NC + 2 NO	pcb pcb	pulse pulse		781- .700-WP 782- .700-WP	42 42	B 2 B 2	M 18 M 18

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Ordering example:
2-position lever switch 761- .700-W0 (see following note)
Bezel 200-6001-00
Lever 200- .604-00

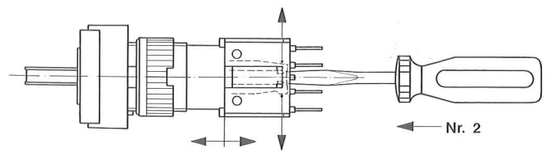
Note:
For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 761+ .700-W0

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 Ø 18 mm	 18 x 18 mm	 18 x 24 mm	 Ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Lever					
supplied fitted				 short	 long
chromed				200- .604-00	200- .804-00
black				200- .704-00	200- .904-00
Blanking plate					
	 Ø 18 mm	 18 x 18 mm	 18 x 24 mm		 24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

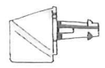
Mounting instructions

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

To detach terminal block



Consisting of: Lever, Bezel, Switch body and terminal block ready assembled



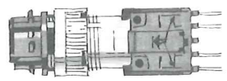


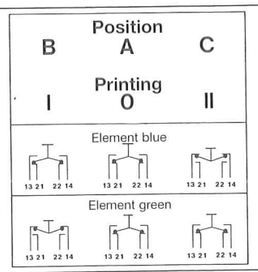
Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimen. drawin.
		3-position lever switch					
	2 NC + 2 NO	s/p	latch-0-latch	712- .700-00	45	B 4	M 8
	2 NC + 2 NO	s/p	0-latch-latch[1]	722- .700-00	45	B 4	M 8
	2 NC + 2 NO	s/p	pulse-0-pulse	732- .700-00	45	B 4	M 8
	2 NC + 2 NO	s/p	latch-0-pulse	742- .700-00	45	B 4	M 8
	2 NC + 2 NO	s/p	pulse-0-latch	752- .700-00	45	B 4	M 8
	2 NC + 2 NO	pcb	latch-0-latch	712- .700-0P	42	B 4	M 18
	2 NC + 2 NO	pcb	0-latch-latch[1]	722- .700-0P	42	B 4	M 18
	2 NC + 2 NO	pcb	pulse-0-pulse	732- .700-0P	42	B 4	M 18
	2 NC + 2 NO	pcb	latch-0-pulse	742- .700-0P	42	B 4	M 18
	2 NC + 2 NO	pcb	pulse-0-latch	752- .700-0P	42	B 4	M 18

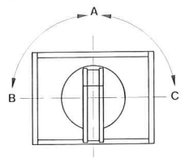
Key: s/p = solder and plug-on terminal combined; pcb = printed circuit board terminal; NC = normally closed contact; NO = normally open contact

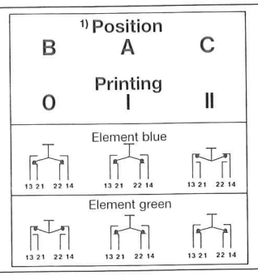
Ordering example: 3-position lever switch 712- .700-00 (see following note); Bezel 200-6002-00; Lever 200- .604-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 712+ .700-00

Diagram:







Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1002-00	200-3002-00	200-5002-00	200-7002-00	200-9002-00
black	200-2002-00	200-4002-00	200-6002-00	200-8002-00	200-0002-00
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1003-00	200-3003-00	200-5003-00	200-7003-00	200-9003-00
black	200-2003-00	200-4003-00	200-6003-00	200-8003-00	200-0003-00
Lever					
supplied fitted				 short	 long
chromed				200- .604-00	200- .804-00
black				200- .704-00	200- .904-00

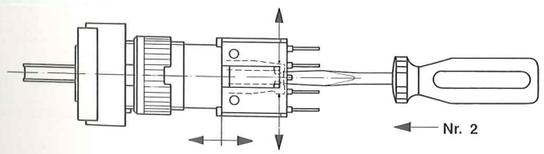
Blanking plate

	Ø 18 mm	18 x 18 mm	18 x 24 mm
			
grey	200-1006-00	200-3006-00	200-5006-00
black	200-2006-00	200-4006-00	200-6006-00

Mounting instructions

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

To detach terminal block



3-position lever switch 45 mm

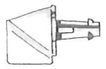
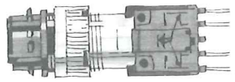
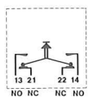
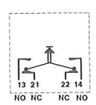
Consisting of: Lever  Bezel  Switch body and terminal block ready assembled 

Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimen drawin
		3-position lever switch					
	2 NC + 2 NO	s/p	latch-0-latch		712- .700-W0	45	B 2	M 8
	2 NC + 2 NO	s/p	0-latch-latch[2]		722- .700-W0	45	B 2	M 8
	2 NC + 2 NO	s/p	pulse-0-pulse		732- .700-W0	45	B 2	M 8
	2 NC + 2 NO	s/p	latch-0-pulse		742- .700-W0	45	B 2	M 8
	2 NC + 2 NO	s/p	pulse-0-latch		752- .700-W0	45	B 2	M 8
	2 NC + 2 NO	pcb	latch-0-latch		712- .700-WP	42	B 2	M 18
	2 NC + 2 NO	pcb	0-latch-latch[2]		722- .700-WP	42	B 2	M 18
	2 NC + 2 NO	pcb	pulse-0-pulse		732- .700-WP	42	B 2	M 18
	2 NC + 2 NO	pcb	latch-0-pulse		742- .700-WP	42	B 2	M 18
	2 NC + 2 NO	pcb	pulse-0-latch		752- .700-WP	42	B 2	M 18

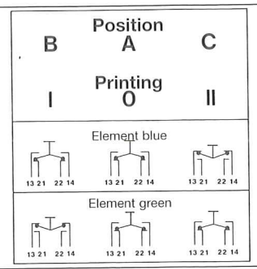
Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1] for IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

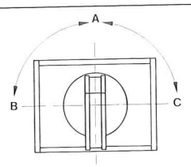
Ordering example:

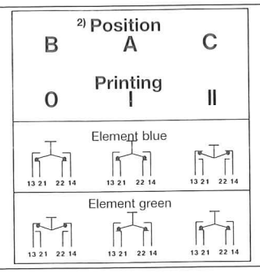
3-position lever switch	712- .700-W0	(see following note)
Bezel	200-6002-00	
Lever	200- .604-00	

Note:
For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 712+ .700-W0

Diagram:





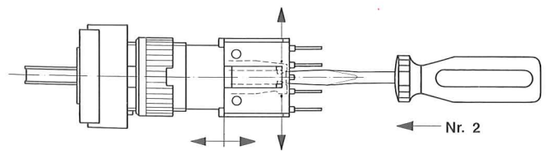


e	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Bezel					
	supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
	grey black	200-1002-00 200-2002-00	200-3002-00 200-4002-00	200-5002-00 200-6002-00	200-7002-00 200-8002-00	200-9002-00 200-0002-00
	supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
	grey black	200-1003-00 200-2003-00	200-3003-00 200-4003-00	200-5003-00 200-6003-00	200-7003-00 200-8003-00	200-9003-00 200-0003-00
	Lever					
	supplied fitted				 short	 long
	chromed black				200- .604-00 200- .704-00	200- .804-00 200- .904-00
	Blanking plate					
		 ø 18 mm	 18 x 18 mm	 18 x 24 mm		 24 x 24 mm
	black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

Mounting instructions

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

To detach terminal block



2-position lever switch 55 mm

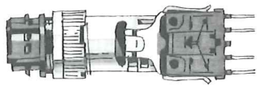
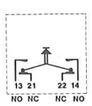
Consisting of: Lever  Bezel  Switch body and terminal block ready assembled 

Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimen drawi
	**2-position lever switch**						
	1 NC + 1 NO	s/p	latching	911- .700-00	55	B 4	M 6
	2 NC + 2 NO	s/p	latching	912- .700-00	55	B 4	M 6
	3 NC + 3 NO	s/p	latching	913- .700-00	55	B 4	M 6
	4 NC + 4 NO	s/p	latching	914- .700-00	55	B 4	M 6
	5 NC + 5 NO	s/p	latching	915- .700-00	55	B 4	M 6
	1 NC + 1 NO	pcb	latching	911- .700-0P	52	B 4	M 16
	2 NC + 2 NO	pcb	latching	912- .700-0P	52	B 4	M 16
	3 NC + 3 NO	pcb	latching	913- .700-0P	52	B 4	M 16
	4 NC + 4 NO	pcb	latching	914- .700-0P	52	B 4	M 16
	5 NC + 5 NO	pcb	latching	915- .700-0P	52	B 4	M 16
	1 NC + 1 NO	s/p	pulse	931- .700-00	55	B 4	M 6
	2 NC + 2 NO	s/p	pulse	932- .700-00	55	B 4	M 6
	3 NC + 3 NO	s/p	pulse	933- .700-00	55	B 4	M 6
	4 NC + 4 NO	s/p	pulse	934- .700-00	55	B 4	M 6
	5 NC + 5 NO	s/p	pulse	935- .700-00	55	B 4	M 6
	1 NC + 1 NO	pcb	pulse	931- .700-0P	52	B 4	M 16
	2 NC + 2 NO	pcb	pulse	932- .700-0P	52	B 4	M 16
	3 NC + 3 NO	pcb	pulse	933- .700-0P	52	B 4	M 16
	4 NC + 4 NO	pcb	pulse	934- .700-0P	52	B 4	M 16
	5 NC + 5 NO	pcb	pulse	935- .700-0P	52	B 4	M 16

Key: s/p = solder and plug-on terminal combined; pcb = printed circuit board terminal; NC = normally closed contact; NO = normally open contact

Ordering example:

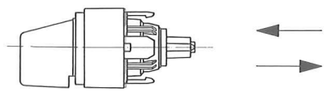
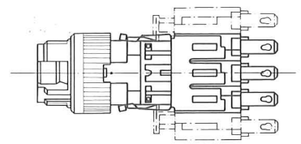
2-position lever switch	911- .700-00	(see following note)
Bezel	200-6001-00	
Lever	200- .604-00	

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a **+**. Example: 911+ .700-00

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Lever					
supplied fitted				 short	 long
chromed				200- .604-00	200- .804-00
black				200- .704-00	200- .904-00
Blanking plate					
	 ø 18 mm	 18 x 18 mm	 18 x 24 mm		
grey	200-1006-00	200-3006-00	200-5006-00		
black	200-2006-00	200-4006-00	200-6006-00		

Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch 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.

Consisting of:	Lever	Bezel	Switch body and terminal block ready assembled

Diagram	Connection	Function	Part No.	Mounting depth mm	Drilling plan No.	Dimen. drawing
		2-position lever switch				
	1 NC + 1 NO	s/p	latching	911- . 700-W0	55	B 2	M 6
	2 NC + 2 NO	s/p	latching	912- . 700-W0	55	B 2	M 6
	3 NC + 3 NO	s/p	latching	913- . 700-W0	55	B 2	M 6
	4 NC + 4 NO	s/p	latching	914- . 700-W0	55	B 2	M 6
	5 NC + 5 NO	s/p	latching	915- . 700-W0	55	B 2	M 6
	1 NC + 1 NO	pcb	latching	911- . 700-WP	52	B 2	M 16
	2 NC + 2 NO	pcb	latching	912- . 700-WP	52	B 2	M 16
	3 NC + 3 NO	pcb	latching	913- . 700-WP	52	B 2	M 16
	4 NC + 4 NO	pcb	latching	914- . 700-WP	52	B 2	M 16
	5 NC + 5 NO	pcb	latching	915- . 700-WP	52	B 2	M 16
	1 NC + 1 NO	s/p	pulse	931- . 700-W0	55	B 2	M 6
	2 NC + 2 NO	s/p	pulse	932- . 700-W0	55	B 2	M 6
	3 NC + 3 NO	s/p	pulse	933- . 700-W0	55	B 2	M 6
	4 NC + 4 NO	s/p	pulse	934- . 700-W0	55	B 2	M 6
	5 NC + 5 NO	s/p	pulse	935- . 700-W0	55	B 2	M 6
	1 NC + 1 NO	pcb	pulse	931- . 700-WP	52	B 2	M 16
	2 NC + 2 NO	pcb	pulse	932- . 700-WP	52	B 2	M 16
	3 NC + 3 NO	pcb	pulse	933- . 700-WP	52	B 2	M 16
	4 NC + 4 NO	pcb	pulse	934- . 700-WP	52	B 2	M 16
	5 NC + 5 NO	pcb	pulse	935- . 700-WP	52	B 2	M 16

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Ordering example:

2-position lever switch	911- . 700-W0	(see following note)
Bezel	200-6001-00	
Lever	200- . 604-00	

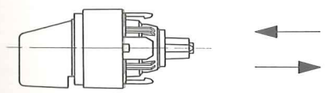
Note:
For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a **+**. Example: 911+ . 700-W0

Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	ø 18 mm	18 x 18 mm	18 x 24 mm	ø 24 mm	24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Lever					
supplied fitted				short	long
chromed				200- . 604-00	200- . 804-00
black				200- . 704-00	200- . 904-00
Blanking plate					
	ø 18 mm	18 x 18 mm	18 x 24 mm		24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

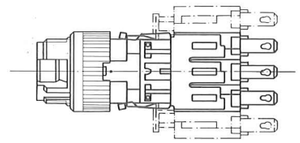
Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch 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.

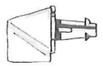
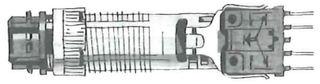
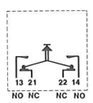
Consisting of: Lever  Bezel  Switch body and terminal block ready assembled 

Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimen. drawin.
	**2-position lever switch**						
	1 NC + 1 NO	s/p	latching	811- . 700-00	70	B 4	M 6
	2 NC + 2 NO	s/p	latching	812- . 700-00	70	B 4	M 6
	3 NC + 3 NO	s/p	latching	813- . 700-00	70	B 4	M 6
	4 NC + 4 NO	s/p	latching	814- . 700-00	70	B 4	M 6
	5 NC + 5 NO	s/p	latching	815- . 700-00	70	B 4	M 6
	1 NC + 1 NO	pcb	latching	811- . 700-0P	67	B 4	M 16
	2 NC + 2 NO	pcb	latching	812- . 700-0P	67	B 4	M 16
	3 NC + 3 NO	pcb	latching	813- . 700-0P	67	B 4	M 16
	4 NC + 4 NO	pcb	latching	814- . 700-0P	67	B 4	M 16
	5 NC + 5 NO	pcb	latching	815- . 700-0P	67	B 4	M 16
	1 NC + 1 NO	s/p	pulse	831- . 700-00	70	B 4	M 6
	2 NC + 2 NO	s/p	pulse	832- . 700-00	70	B 4	M 6
	3 NC + 3 NO	s/p	pulse	833- . 700-00	70	B 4	M 6
	4 NC + 4 NO	s/p	pulse	834- . 700-00	70	B 4	M 6
	5 NC + 5 NO	s/p	pulse	835- . 700-00	70	B 4	M 6
	1 NC + 1 NO	pcb	pulse	831- . 700-0P	67	B 4	M 16
	2 NC + 2 NO	pcb	pulse	832- . 700-0P	67	B 4	M 16
	3 NC + 3 NO	pcb	pulse	833- . 700-0P	67	B 4	M 16
	4 NC + 4 NO	pcb	pulse	834- . 700-0P	67	B 4	M 16
	5 NC + 5 NO	pcb	pulse	835- . 700-0P	67	B 4	M 16

Key: s/p = solder and plug-on terminal combined; pcb = printed circuit board terminal; NC = normally closed contact; NO = normally open contact

Ordering example:

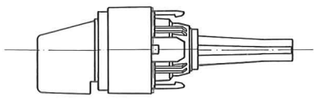
2-position lever switch	811- . 700-00	(see following note)
Bezel	200-6001-00	
Lever	200- . 604-00	

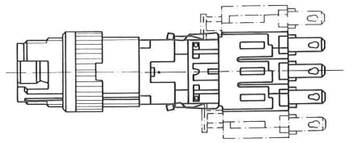
Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 811+ . 700-00

pe	Colour	Part No.	Part No.	Part No.	Part No.	Part No.
	Bezel					
	supplied fitted	 ø 18 mm	 18 x 18 mm	 18 x 24 mm	 ø 24 mm	 24 x 24 mm
	grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
	black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
	**Lever**					
	supplied fitted				 short	 long
	chromed				200- . 604-00	200- . 804-00
	black				200- . 704-00	200- . 904-00
	Blanking plate					
		 ø 18 mm	 18 x 18 mm	 18 x 24 mm		
	grey	200-1006-00	200-3006-00	200-5006-00		
	black	200-2006-00	200-4006-00	200-6006-00		

Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch in fascia/control panel
3. Snap on front section (see Note) and tighten fixing nut

Zero position 

Wiring diagram 

te: 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.

Consisting of:	Lever	Bezel	Switch body and terminal block ready assembled

Diagram	Connection	Function		Part No.	Mounting depth mm	Drilling plan No.	Dimens drawin
		2-position lever switch					
1 NC + 1 NO	s/p	latching		811- .700-W0	70	B 2	M 6
2 NC + 2 NO	s/p	latching		812- .700-W0	70	B 2	M 6
3 NC + 3 NO	s/p	latching	A C	813- .700-W0	70	B 2	M 6
4 NC + 4 NO	s/p	latching		814- .700-W0	70	B 2	M 6
5 NC + 5 NO	s/p	latching		815- .700-W0	70	B 2	M 6
1 NC + 1 NO	pcb	latching		811- .700-WP	67	B 2	M 16
2 NC + 2 NO	pcb	latching		812- .700-WP	67	B 2	M 16
3 NC + 3 NO	pcb	latching	A C	813- .700-WP	67	B 2	M 16
4 NC + 4 NO	pcb	latching		814- .700-WP	67	B 2	M 16
5 NC + 5 NO	pcb	latching		815- .700-WP	67	B 2	M 16
1 NC + 1 NO	s/p	pulse		831- .700-W0	70	B 2	M 6
2 NC + 2 NO	s/p	pulse		832- .700-W0	70	B 2	M 6
3 NC + 3 NO	s/p	pulse	A C	833- .700-W0	70	B 2	M 6
4 NC + 4 NO	s/p	pulse		834- .700-W0	70	B 2	M 6
5 NC + 5 NO	s/p	pulse		835- .700-W0	70	B 2	M 6
1 NC + 1 NO	pcb	pulse		831- .700-WP	67	B 2	M 16
2 NC + 2 NO	pcb	pulse		832- .700-WP	67	B 2	M 16
3 NC + 3 NO	pcb	pulse	A C	833- .700-WP	67	B 2	M 16
4 NC + 4 NO	pcb	pulse		834- .700-WP	67	B 2	M 16
5 NC + 5 NO	pcb	pulse		835- .700-WP	67	B 2	M 16

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
NC = normally closed contact
NO = normally open contact
[1)] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Ordering example:

2-position lever switch	811- .700-W0	(see following note)
Bezel	200-6001-00	
Lever	200- .604-00	

Note:
For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 811+ .700-W0

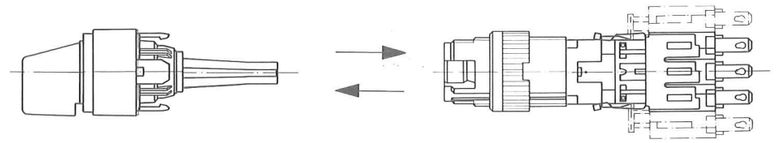
Colour	Part No.	Part No.	Part No.	Part No.	Part No.
Bezel					
supplied fitted	ø 18 mm	18 x 18 mm	18 x 24 mm	ø 24 mm	24 x 24 mm
grey	200-1001-00	200-3001-00	200-5001-00	200-7001-00	200-9001-00
black	200-2001-00	200-4001-00	200-6001-00	200-8001-00	200-0001-00
Lever					
supplied fitted				short	long
chromed				200- .604-00	200- .804-00
black				200- .704-00	200- .904-00
Blanking plate					
	ø 18 mm	18 x 18 mm	18 x 24 mm		24 x 24 mm
black	200-2006-W0	200-4006-W0	200-6006-W0		200-0006-W0

Mounting instructions

The switch is mounted in a fascia/control panel in three steps:
1. Remove front section as in drawing
2. Insert switch in fascia/control panel
3. Snap on front section (see Note) and tighten fixing nut

Zero position

Wiring diagram



te:
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.

7

Push-pull illuminated switch 45 mm

> Naturally, we demand as much of our suppliers as we do of ourselves. Reasonable price certainly plays a part, but even more important for us are reliable delivery on time and consistent product quality. We specify requirements that extend into the field of high-precision engineering and allow no deviation whatever.

Elisabeth Hort
Purchasing Department

Swisstac

Consisting of: Push-pull knob

Switch and terminal block ready assembled

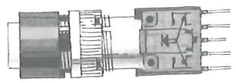
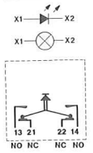
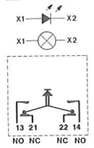


Diagram	Connection	Function 3 positions	Bezel ø 18 mm colour	Lamp-holder	Part No.	Mounting depth mm	Drilling plan No.	Dimen drawin
		Push-pull illuminated switch						
	2NC + 2NO	s/p	pulse-0-pulse	grey	MG T 1¾ 792-1000-00	45	B 4	M10
	2NC + 2NO	s/p	pulse-0-pulse	black	MG T 1¾ 792-2000-00	45	B 4	M10
	2NC + 2NO	pcb	pulse-0-pulse	grey	MG T 1¾ 792-1000-0P	42	B 4	M20
	2NC + 2NO	pcb	pulse-0-pulse	black	MG T 1¾ 792-2000-0P	42	B 4	M20

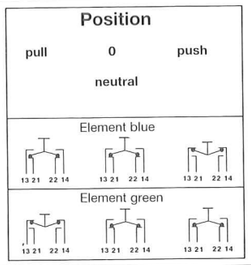
Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
X1 = anode lamp terminal
MG = midget grooved
NC = normally closed contact
NO = normally open contact

Ordering example: Push-pull illuminated switch 792-1000-00 (see following note)
Push-pull knob 200-.245-00

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 792+1000-00

Lamps: Incandescent bulbs, glowlamps and LEDs must be ordered separately (see section 13 "Accessories").

Diagram:



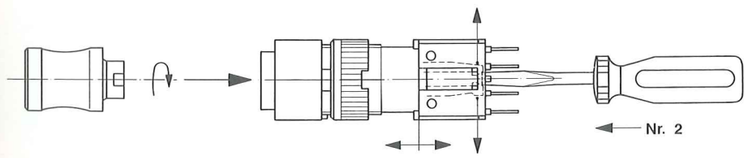
pe	Colour	Part No.
	Push-pull knob	
		ø 14 mm
nsparent	red	200-.225-00
	green	200-.245-00
	blue	200-.255-00
	white	200-.265-00
	yellow	200-.275-00
	Blanking plate	
		ø 18 mm
	grey	200-1006-00
	black	200-2006-00

Mounting instructions

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

Push-pull knob

To detach terminal block



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

Emergency Stop switch 55-70 mm

"Frankly, we are rather proud of our completely revamped emergency stop switches. Now they work even more reliably. That of course is top priority with this kind of switch. Also, the electrical rating has been raised, and now they can be fitted with a waterproof lock. Incidentally, we put quite a lot of time and thought into the modifications."

Hans Hertner
Quality Assurance Manager

Consisting of: Actuator and switch body ready assembled with terminal block
(Order identity plate separately)

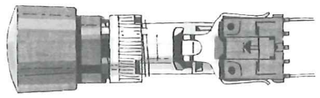
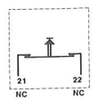
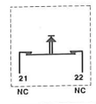
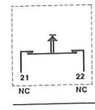
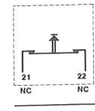
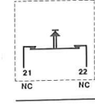


Diagram	Connection		Part No.	Protection class	Mounting depth mm	Drilling plan No.	Dimension drawing No.
	Emergency Stop switch with turn to release						
	1 NC	s/p	951+2000-00	IP 40	55	B 4	M 9
	2 NC	s/p	952+2000-00	IP 40	55	B 4	M 9
	3 NC	s/p	953+2000-00	IP 40	55	B 4	M 9
	1 NC	pcb	951+2000-0P	IP 40	52	B 4	M 19
	2 NC	pcb	952+2000-0P	IP 40	52	B 4	M 19
	3 NC	pcb	953+2000-0P	IP 40	52	B 4	M 19
	1 NC	s/p	851+2000-00	IP 40	70	B 4	M 9
	2 NC	s/p	852+2000-00	IP 40	70	B 4	M 9
	3 NC	s/p	853+2000-00	IP 40	70	B 4	M 9
	1 NC	pcb	851+2000-0P	IP 40	67	B 4	M 19
	2 NC	pcb	852+2000-0P	IP 40	67	B 4	M 19
	3 NC	pcb	853+2000-0P	IP 40	67	B 4	M 19
	1 NC	s/p	951+2000-W0	IP 65	55	B 2	M 9
	2 NC	s/p	952+2000-W0	IP 65	55	B 2	M 9
	3 NC	s/p	953+2000-W0	IP 65	55	B 2	M 9
	1 NC	pcb	951+2000-WP	IP 65	52	B 2	M 19
	2 NC	pcb	952+2000-WP	IP 65	52	B 2	M 19
	3 NC	pcb	953+2000-WP	IP 65	52	B 2	M 19
	1 NC	s/p	851+2000-W0	IP 65	70	B 2	M 9
	2 NC	s/p	852+2000-W0	IP 65	70	B 2	M 9
	3 NC	s/p	853+2000-W0	IP 65	70	B 2	M 9
	1 NC	pcb	851+2000-WP	IP 65	67	B 2	M 19
	2 NC	pcb	852+2000-WP	IP 65	67	B 2	M 19
	3 NC	pcb	853+2000-WP	IP 65	67	B 2	M 19

Key: s/p = solder and plug-on terminal combined NC = normally closed contact
pcb = printed circuit board terminal
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the switch from twisting.

Ordering example:

Emergency Stop switch	951+2000-00
Identity plate	200-1300-02

Type	Colour/Language	Part No.
	Emergency Stop identity plate yellow	
IP 40		 Ø 43 mm
	No wording	200-1300-01
	Wording German	200-1300-02
	Wording English	200-1300-03
	Wording French	200-1300-04
	Wording Italian	200-1300-05
	Wording Russian	200-1300-06
IP 65		 Ø 43 mm
	No wording	200-1300-W1
	Wording German	200-1300-W2
	Wording English	200-1300-W3
	Wording French	200-1300-W4
	Wording Italian	200-1300-W5
	Wording Russian	200-1300-W6

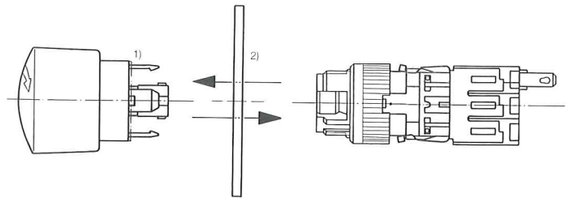
Mounting instructions

The switch is mounted in a fascia or control panel in three steps:
1. Detach front section as in drawing
2. Insert switch in fascia/control panel
3. Snap on front section and tighten fixing nut

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

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

Zero position Identity plate Wiring diagram



Consisting of: Actuator and switch body ready assembled with terminal block
(Order identity plate separately)

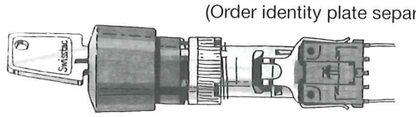
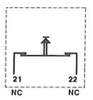
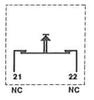


Diagram		Connection	Part No.	Protection class	Mounting depth mm	Drilling plan No.	Dimension drawing No.
	**Emergency Stop switch** with key release, incl. 2 keys						
	1 NC	s/p	961+2401-00	IP 40	55	B 4	M 9
	2 NC	s/p	962+2401-00	IP 40	55	B 4	M 9
	3 NC	s/p	963+2401-00	IP 40	55	B 4	M 9
	1 NC	pcb	961+2401-0P	IP 40	52	B 4	M 19
	2 NC	pcb	962+2401-0P	IP 40	52	B 4	M 19
	3 NC	pcb	963+2401-0P	IP 40	52	B 4	M 19
	1 NC	s/p	861+2401-00	IP 40	70	B 4	M 9
	2 NC	s/p	862+2401-00	IP 40	70	B 4	M 9
	3 NC	s/p	863+2401-00	IP 40	70	B 4	M 9
	1 NC	pcb	861+2401-0P	IP 40	67	B 4	M 19
	2 NC	pcb	862+2401-0P	IP 40	67	B 4	M 19
	3 NC	pcb	863+2401-0P	IP 40	67	B 4	M 19
	1 NC	s/p	961+2401-W0	IP 65	55	B 2	M 9
	2 NC	s/p	962+2401-W0	IP 65	55	B 2	M 9
	3 NC	s/p	963+2401-W0	IP 65	55	B 2	M 9
	1 NC	pcb	961+2401-WP	IP 65	52	B 2	M 19
	2 NC	pcb	962+2401-WP	IP 65	52	B 2	M 19
	3 NC	pcb	963+2401-WP	IP 65	52	B 2	M 19
	1 NC	s/p	861+2401-W0	IP 65	70	B 2	M 9
	2 NC	s/p	862+2401-W0	IP 65	70	B 2	M 9
	3 NC	s/p	863+2401-W0	IP 65	70	B 2	M 9
	1 NC	pcb	861+2401-WP	IP 65	67	B 2	M 19
	2 NC	pcb	862+2401-WP	IP 65	67	B 2	M 19
	3 NC	pcb	863+2401-WP	IP 65	67	B 2	M 19

Standard lock arrangem.: All the above Part Nos. contain standard lock arrangement B2 390.

Other arrangements: Four other standard lock arrangements are B2 391 – B2 394.
This extra designation must be stated when ordering.

Key: s/p = solder and plug-on terminal combined NC = normally closed contact
pcb = printed circuit board terminal
[1] For IP 65 versions we recommend location strip No. 260-0020-00 to prevent the switch from twisting.

Ordering example:

Emergency Stop switch	961+2401-00
Identity plate	200-1300-02

Type	Colour/language	Part No.
	Emergency Stop identity plate yellow	
IP 40		 ø 43 mm
	No wording	200-1300-01
	Wording German	200-1300-02
	Wording English	200-1300-03
	Wording French	200-1300-04
	Wording Italian	200-1300-05
	Wording Russian	200-1300-06
IP 65		 ø 43 mm
	No wording	200-1300-W1
	Wording German	200-1300-W2
	Wording English	200-1300-W3
	Wording French	200-1300-W4
	Wording Italian	200-1300-W5
	Wording Russian	200-1300-W6

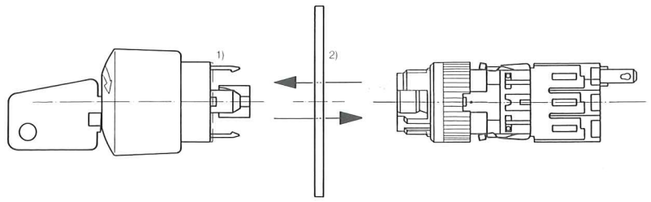
Mounting instructions

The switch is mounted in a fascia or control panel in three steps:
1. Detach front section as in drawing, remove fixing nut
2. Insert switch in fascia/control panel
3. Snap on front section and tighten fixing nut

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

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

Zero position Identity plate Wiring diagram



> Wherever possible we work with the latest computer systems. After all, we put hundreds of precision components together into subassemblies which can then be combined in an endless number of final variations. This modular approach allows us among other things to do small customized production runs at short notice – one of our great strengths. This means it is quite inconceivable that people in production could be completely replaced by computers.

Urs Weibel
Production Planning

9

Alarm buzzer 30-55 mm

Swisstac

Consisting of: Buzzer element, Bezel, Buzzer housing

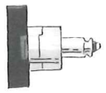


Diagram	Connection	Buzzer holder	Part No.	Mounting depth mm	Drilling plan No.	Dimension drawing No.
	Buzzer housing					
	s/p	MG T 1¾	970- .000-K0	30	B 1	M 3
+ =X1-(H-H)-X2= −	pcb	MG T 1¾	970- .000-0P	52	B 1	M 13
	[1] s/p	MG T 1¾	970- .000-00	55	B 1	M 4

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
MG = midget grooved
[1] This buzzer has the same depth behind the panel as the corresponding illuminated pushbutton and can therefore be combined with the pcb-adapter or with the multi-connector housing.

Ordering example:

Buzzer housing	970- .000-K0
Buzzer element	970-6024-00
Bezel	200-6000-00

Type	Colour	Voltage	Part No.	Part No.
	Buzzer element AC/DC			
			 18 x 24 mm	 24 x 24 mm
	grey	6 V	970-5006-00	970-9006-00
	grey	12 V	970-5012-00	970-9012-00
	grey	24 V	970-5024-00	970-9024-00
	black	6 V	970-6006-00	970-0006-00
	black	12 V	970-6012-00	970-0012-00
	black	24 V	970-6024-00	970-0024-00
	Bezel			
			 18 x 24 mm	 24 x 24 mm
	grey		200-5000-00	200-9000-00
	black		200-6000-00	200-0000-00

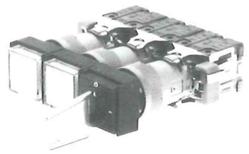
Technical details

Supply voltages:	6, 12, 24 V (AC/DC) ± 10 %
Power consumption:	13 mA approx.
Pole-reversal protection:	yes
Sound output:	approx. 84 dB at 0.1 m
Frequency:	DC: 2.3 kHz approx.
	AC: mains frequency

I assemble unusual "one-offs" to customer specifications. Sometimes it is really quite tricky. I think I've got the most interesting work in the whole of Uniswitch. Every job is different. And sometimes I'm even asked by the people from the design department whether certain combinations are possible. It's a good feeling, being able to help solve problems.

Liliane Rothenbühler
Special Models
Deputy Supervisor, Assembly

10



Switch interlock systems

Swisstac

General

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

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

1. Standard switch interlock systems
2. Switch interlock systems with key switch
3. Switch interlock systems with solenoid

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

All switch interlock systems are supplied ready for mounting.
Splash-proof versions (IP 65) are obtainable with bezels of ø 24 mm or 24 x 24 mm.
The interlock system withstands a pressure of at least 50 N (5 kp).

Variants of switch interlock systems

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

Variant 1 Pulse mode possible only with one pushbutton at a time, as the buttons are interactively blocked mechanically (XOR).

Variant 2 Latching of one pushbutton at a time. This blocks the other buttons mechanically and is only released by pressing the actuated pushbutton again.

Variant 3 Latching of one pushbutton at a time. If another button is pressed, the first resets. One button is normally always “on” (XOR).

Variant 4 Latching of one pushbutton at a time. If another button is pressed, the first resets. The release button cancels the “on” condition.

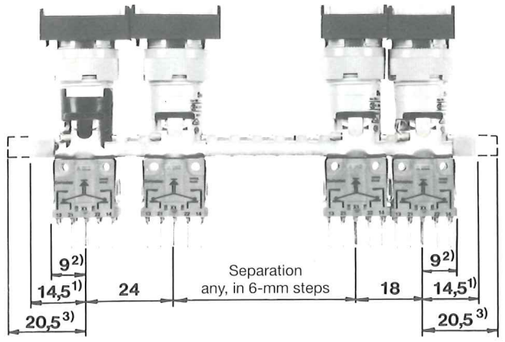
Variant 5 Latching of one or more pushbuttons pressed simultaneously. If one or more buttons are operated simultaneously, the button or group of buttons pressed before are reset. Switching “off” is done only with the release button.

Variant 6 Latching of one pushbutton at a time. Another button cannot be operated until the first has been reset with the release button. All buttons are then at “zero”.

Variant 7 Latching of any one switch, which can also be operated one after the other. Actuated buttons can only be reset with the release button.

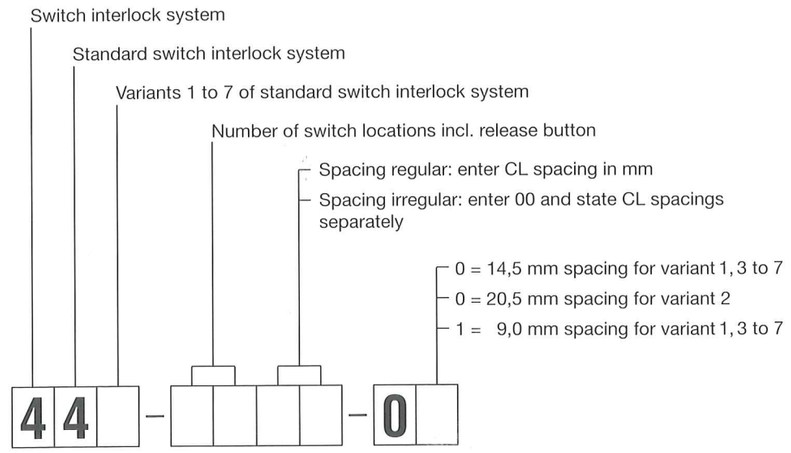
Action \ Variants	1	2	3	4	5	6	7
Latching		●	●	●	●	●	●
Mutual mechanical release			●	●	●		
Individual release by pressing again		●					
All released with release button				●	●	●	●
Mutual mechanical blocking	●	●	●	●		●	

Standard switch interlock system



Centre line (CL) spacing:
[1] for variant 1, 3 to 7: 14,5 mm
[2] for variant 1, 3 to 7: reduction to 9,0 mm at extra cost
[3] for variant 2: at least 20,5 mm

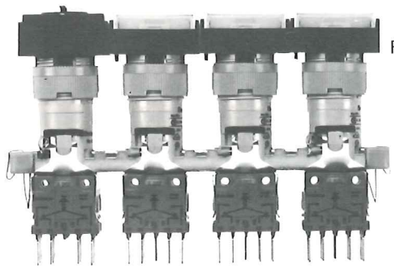
Part number



Ordering example:

Switch interlock system	443-0824-00
Illuminated pushbutton	901- .000-00
Bezel	200-6000-00
Lens	200-5160-00

Switch interlock system with key switch



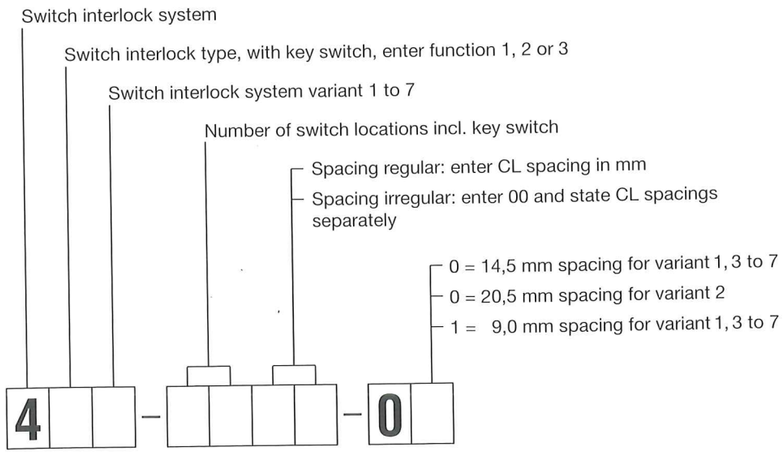
For dimensions, see Standard switch interlock system

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

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

Function 1	**Controls switching "on"** Possible with variants 3, 4 and 6	Zero position: unrestricted operation. Latch position: resets actuated switches to zero position and at the same time blocks all switches.
Function 2	**Controls switching "off"** Possible with variants 6 and 7	Zero position: switching "on" is possible. Pulse position: turning the key switch to the pulse position resets the actuated switches to the zero position (key switch with pulse mode replaces release button).
Function 3	**Controls switching "on" and "off"** Possible with variants 1 to 7	Zero position: unrestricted operation. Latch position: locks all switches at their present setting.

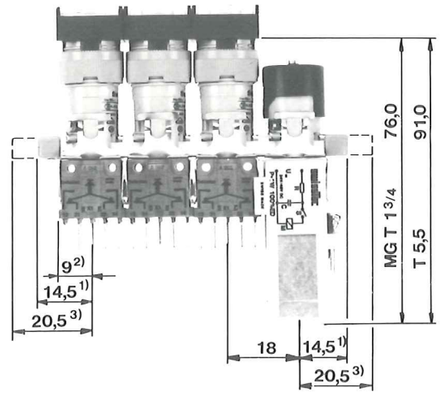
Part number



Ordering example:

Switch interlock system	426-0918-00
Key switch	931-.401-00
Illuminated pushbutton	901-.000-00
Bezel for key switch	200-4001-00
Bezel for pushbutton	200-4000-00
Lens	200-3170-00

Switch interlock system with solenoid

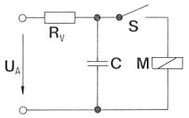


Centre line (CL) spacing: [1] for variant 1, 3 to 7: 14,5 mm
[2] for variant 1, 3 to 7: reduction to 9,0 mm at extra cost
[3] for variant 2: at least 20,5 mm

Switch interlock systems with a solenoid can be remote-controlled. The switches can be blocked or released in this way.
The two functions can be activated by "voltage applied" or "no voltage".
The centre line spacing for a release or blocking solenoid is always 18 mm, regardless of the switch spacing.
Solenoids are available for voltages of 24 and 48 V DC.

A duty factor (DF) of 100 % requires a suitable series resistor (R_V) and a capacitor (C).

Wiring diagram:



Key: U_A = Supply voltage
R_V = Series resistor
C = Capacitor
M = Solenoid
S = Switch contact (control command)

Direct connection: Release only

24 V DC/1,2 A	DF 3 %	referred to 1 minute
48 V DC/2,4 A	DF 1,5%	referred to 1 minute

There is a choice of four types of switch interlock systems with solenoid.
They differ according to their function.

Function 5

Release with voltage applied — Application of voltage sets all switches to zero.
Possible with variants 3 to 7

Release with "voltage applied"		
Variant	No. of switches	actuates max.
3	20	1
4	20	1
5	20	1
6	20	1
7	10	6
7	8	8

Function 6

Release with no voltage — Absence of voltage sets all switches to zero.
Possible with variants 3 to 7

Release with "no voltage"		
Variant	No. of switches	actuates max.
3	20	1
4	20	1
5	20	1
6	8	1
7	8	5
7	6	6

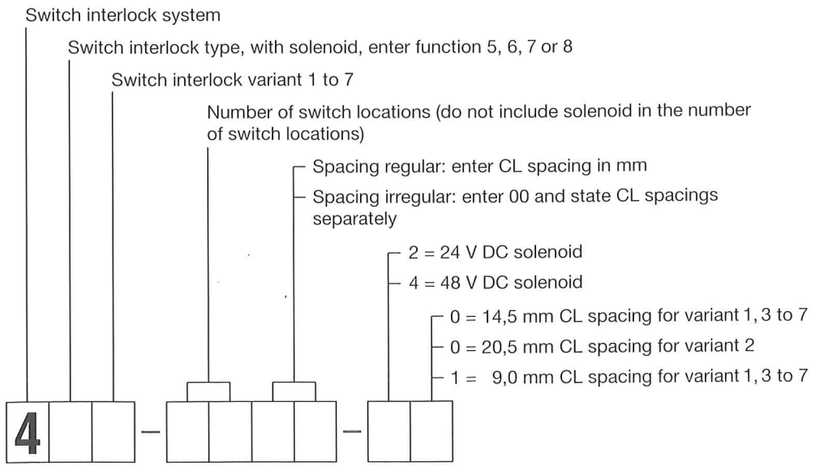
Function 7

Blocking with voltage applied — Application of voltage blocks all switches at their present setting.
Possible with variants 1 to 7

Function 8

Blocking with no voltage — Absence of voltage blocks all switches at their present setting.
Possible with variants 1 to 7

Part number



Ordering example:		
	Switch interlock system	473-1024-20
	Illuminated pushbutton	802- .000-00
	Bezel	200-9000-00
	Lens	200-9140-00

	Part No.	Part No.
Capacitor (C)		
for solenoid with DF 100%		
		
for 24 V DC (4700 µF/35 V)	300-0091-00	
for 48 V DC (1000 µF/63 V)		300-0092-00
Resistor (R_V)		
for solenoid with DF 100%		
		
for 24 V DC (47 ohm/ 7 W)	300-0071-00	
for 48 V DC (100 ohm/17 W)		300-0070-00
Solenoid (spare)		
complete with 20 ohm coil		
for "voltage applied" activation	244-0002-00	
for "no voltage" activation	244-0003-00	

Consisting of: Lens, Bezel, Release button



Diagram	Connection	Lampholder	Part No.	Mounting depth mm	Drilling plan No.	Dimension drawing No.
		Release button				
X1 X2	0 NC + 0 NO	s/p	MG T 1¾	940- . 000-00	55	B 1 [1]	M 1
X1 X2	1 NC + 1 NO	s/p	MG T 1¾	941- . 000-00	55	B 1 [1]	M 1
13 21 22 14 NO NC NC NO	2 NC + 2 NO	s/p	MG T 1¾	942- . 000-00	55	B 1 [1]	M 1
	3 NC + 3 NO	s/p	MG T 1¾	943- . 000-00	55	B 1 [1]	M 1
	4 NC + 4 NO	s/p	MG T 1¾	944- . 000-00	55	B 1 [1]	M 1
	5 NC + 5 NO	s/p	MG T 1¾	945- . 000-00	55	B 1 [1]	M 1
X1 X2	0 NC + 0 NO	pcb	MG T 1¾	940- . 000-0P	52	B 1 [1]	M 11
X1 X2	1 NC + 1 NO	pcb	MG T 1¾	941- . 000-0P	52	B 1 [1]	M 11
13 21 22 14 NO NC NC NO	2 NC + 2 NO	pcb	MG T 1¾	942- . 000-0P	52	B 1 [1]	M 11
	3 NC + 3 NO	pcb	MG T 1¾	943- . 000-0P	52	B 1 [1]	M 11
	4 NC + 4 NO	pcb	MG T 1¾	944- . 000-0P	52	B 1 [1]	M 11
	5 NC + 5 NO	pcb	MG T 1¾	945- . 000-0P	52	B 1 [1]	M 11
X1 X2	0 NC + 0 NO	s/p	T 5.5	840- . 000-00	70	B 1 [1]	M 1
X1 X2	1 NC + 1 NO	s/p	T 5.5	841- . 000-00	70	B 1 [1]	M 1
13 21 22 14 NO NC NC NO	2 NC + 2 NO	s/p	T 5.5	842- . 000-00	70	B 1 [1]	M 1
	3 NC + 3 NO	s/p	T 5.5	843- . 000-00	70	B 1 [1]	M 1
	4 NC + 4 NO	s/p	T 5.5	844- . 000-00	70	B 1 [1]	M 1
	5 NC + 5 NO	s/p	T 5.5	845- . 000-00	70	B 1 [1]	M 1
X1 X2	0 NC + 0 NO	pcb	T 5.5	840- . 000-0P	67	B 1 [1]	M 11
X1 X2	1 NC + 1 NO	pcb	T 5.5	841- . 000-0P	67	B 1 [1]	M 11
13 21 22 14 NO NC NC NO	2 NC + 2 NO	pcb	T 5.5	842- . 000-0P	67	B 1 [1]	M 11
	3 NC + 3 NO	pcb	T 5.5	843- . 000-0P	67	B 1 [1]	M 11
	4 NC + 4 NO	pcb	T 5.5	844- . 000-0P	67	B 1 [1]	M 11
	5 NC + 5 NO	pcb	T 5.5	845- . 000-0P	67	B 1 [1]	M 11

Key:
s/p = solder and plug-on terminal combined
pcb = printed circuit board terminal
X1 = anode lamp terminal
MG = midget grooved
NC = normally closed contact
NO = normally open contact
[1] Bezels to protection class IP 65 require drilling plan B 2.

Ordering example:

Release button	941- . 000-00	(see following note)
Bezel	200-6000-00	
Lens	200-5120-00	

Note: For **uprated switching frequency,** order the appropriate switch by replacing the first dash in the Part No. with a +. Example: 941+ . 000-00

Bezels and lenses: see section 3 “illuminated pushbutton 55 and 70 mm”

Lamps: Incandescent bulbs, glowlamps and LEDs must be ordered separately (see section 13 “Accessories”).

“With our dimension drawings and drilling plans, any electrician can make up his own control panels. But more and more customers prefer Uniswitch to supply fully equipped. As far as I know, we are actually the only switch manufacturer to offer this service. It fits in with our company’s philosophy that the customer is always right.”

Paul Wettstein
Works manager

It would be a shame to letter these attractive, modern SWISSTAC switches with just any old typeface. Switchboards can portray a company's corporate design, using the company's typeface and its colours, for example, or doing something completely new and different: printing symbols (that need no language) on the lens, or inserting a transparent foil.

Jürg Winterberger
CPR AG Internal + external communication, Baden

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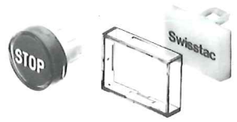


Engraving / film legends

Swisstac

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

Pad printing

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

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

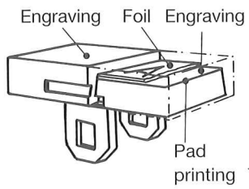
Foil insert

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

Foil thickness: 0.1 mm max.

Lens for	Foil size
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

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



Lens	max. usable area with letter height 2,5 mm	max. usable area with letter height 3 mm	max. usable area with letter height 4 mm	max. usable area with letter height 5 mm
ø 18 mm	13 mm, Stop	13 mm, Gate	13 mm, P	13 mm, FF
18 x 18 mm	13 mm, on, 13 mm	13 mm, Motor, 13 mm	13 mm, 356, 13 mm	13 mm, up, 13 mm
18 x 24 mm	18,5 mm, Release-button, 13 mm	18,5 mm, Drive, 13 mm	18,5 mm, Pump, 13 mm	18,5 mm, Auto., 13 mm
24 x 18 mm	13 mm, Top, 18,5 mm	13 mm, Stop, 18,5 mm	13 mm, off, 18,5 mm	13 mm, V, 18,5 mm
ø 24 mm	18,5 mm, Start	18,5 mm, Group 1	18,5 mm, Man.	18,5 mm, Dia
24 x 24 mm	18,5 mm, Control, 18,5 mm	18,5 mm, Lamp control, 18,5 mm	18,5 mm, right, 18,5 mm	18,5 mm, left, 18,5 mm

I think it all started one lunchtime, when we were all sitting in the garden having a bar-b-que. It was then that I realised that in the same way each different part in my store works together to make a SWISSTAC switch, all my collegues work together to make UNISWITCH.

René Zimmermann
Stores Management
UL-Tests



Accessories and spare parts

Accessories and spare parts, front section

	Part	see
	**Bezel for pushbutton and pilot lamp 30-70 mm**	Section 3 and 4
	**Lens for pushbutton 35 mm**	Section 2
	**Lens for pushbutton and pilot lamp 30-70 mm**	Section 3 and 4
	Sealing gland	Section 3 and 4
	Sealing ring	Section 3 and 4
	**Press ring**	Section 4
	**Mushroom cap**	Section 3
	**Water protection**	Section 3 and 4
	**Flap guard**	Section 2 and 3
	**Guards**	Section 3
	**Blanking plate**	Section 2 to 7
	**Bezel for key- and lever switches**	Section 5 and 6
	**Spare key**	Page 13.3
	**Lever**	Section 6
	**Push-pull knob**	Section 7
	**Identity plate**	Section 8

Type	Part No.
Spare key	
	
for key switch for emergency Stop switch	240-2001-00[1] 240-3001-00[1]
Ordering example: [1] State part number together with number stamped on key. Example: 240-2001-00 B2 300	
Switch body	
for illuminated pushbutton 55 – 70 mm incl. fixing nut	
	
MG T 1¾ T 5,5	260-9000-00 260-8000-00
Fixing nut	
for panel thickness	
	
1 – 3 mm (grey) 3 – 5 mm (grey) 5 – 7 mm (grey)	260-0001-00 260-0002-00 260-0005-00
for illuminated pushbutton 35 mm panel thickness 1 – 3 mm (black)	260-0003-00
Spring with pin	
for latching mechanism within switch body	
	
	260-0010-00
Location strip	
prevents the bezel from twisting and locks the fixing nut. It is recommended for all key switches, lever switches and IP 65 models. Location strips for single switches can easily be detached from the strip supplied.	
	
In-line arrays, 18 mm centres and single switches In-line arrays, 24 mm centres	260-0020-00 260-0021-00

Type		Part No.	Part No.	Part No.
	Holder for 3 contact elements			
				
	for switch 55 – 70 mm			270-1000-00
	Holder for 2 contact elements			
				
	for switch 45 mm		270-2000-00	
	for switch 35 mm			270-3000-00
	Lamp contact			
				
	combined solder/plug-in terminal		270-0000-00	
	pcb-terminal			270-0000-0P
	Contact element, combined solder/plug-in terminal			
				 
	1 NC + 1 NO			
	[1] 2 µm Au, green	201-0400-00		
	[1] 2 µm Au, blue		201-0500-00	
	[1] 2 µm Au, grey			201-0800-00
	Contact element, pcb			
				
	1 NC + 1 NO			
	[1] 2 µm Au, grey			221-0800-0P

Note: [1] For **uprated switching frequency,** order the appropriate contact element by replacing the first dash in the Part No. with a **+**. Example: 201+0400-00

Type			Part No.	Part No.
	Emergency Stop element			
				
	1 NC			
	combined solder/plug-in terminal	grey	211+0800-00	
	pcb-terminal	grey		231+0800-0P
	Diode element, combined solder/plug-in terminal			
				
	diode 1 N/4007			
	with 1 diode	red	212-0100-00	
	with 2 diodes	red		213-0100-00
	Diode element, circuit board			
				
	diode 1 N/4007			
	with 1 diode	red	222-0100-0P	
	with 2 diodes	red		214-0100-0P
	Dummy element			
				
	white			202-0600-00

Type		Part No.
PCB adapter, straight version		
incl. lamp terminal 0,5 µm Au		
for indicator (lamp terminal only)	for 35/55/70 mm	280-0100-00
1 NC + 1 NO	for 35/45 mm	280-1110-00
1 NC + 1 NO	for 55/70 mm	280-1100-00
2 NC + 2 NO	for 35-70 mm	280-2100-00
3 NC + 3 NO	for 55/70 mm	280-3100-00
PCB adapter, angled version		
incl. lamp terminal 0,5 µm Au		
for indicator (lamp terminal only)	for 35/55/70 mm	280-0200-00
1 NC + 1 NO	for 35/45 mm	280-1210-00
1 NC + 1 NO	for 55/70 mm	280-1200-00
2 NC + 2 NO	for 35-70 mm	280-2200-00
3 NC + 3 NO	for 55/70 mm	280-3200-00
Multi-connector housing		
used together with flat connector with locating tongue, enables up to 14 terminals to be plugged in simultaneously.		
to fit flat connector **with** locating tongue		280-0000-00
Insulating sleeve		
to fit flat connector **without** locating tongue		280-0010-00

Type	Part No.	Part No.
Flat connector 2,8 x 0,5 mm		
		
with two outputs		280-0004-00
only to be used in conjunction with multi-connector housing (Part No. 280-0000-00).		
with locating tongue for terminal section 0,1 – 0,25 mm²	280-0001-00	
with locating tongue for terminal section 0,5 – 1,00 mm²		280-0002-00
only to be used in conjunction with insulating sleeve (Part No. 280-0010-00)		
without locating tongue for terminal section 0,2 – 0,75 mm²		280-0003-00
Incandescent lamp, midget grooved T 1¾		
		
6,3 V 200 mA		300-1000-00
14 V 80 mA		300-2000-00
28 V 40 mA		300-3000-00
36 V 30 mA		300-4000-00
48 V 25 mA		300-5000-00
60 V 20 mA		300-6000-00
LED, midget grooved T 1¾		
		
approx. 1,8 V DC 20 mA red		390-0200-00
approx. 2,1 V DC 20 mA yellow		390-0300-00
approx. 2,2 V DC 20 mA green		390-0400-00

Type				Part No.
Multi-LED, midget grooved T 1¾ (6 chips)				
with built-in protective diode				
6 V DC	45	mA	red	390-6206-00
6 V DC	45	mA	yellow	390-6306-00
6 V DC	45	mA	green	390-6406-00
12 V DC	25	mA	red	390-6212-00
12 V DC	25	mA	yellow	390-6312-00
12 V DC	25	mA	green	390-6412-00
24 V DC	12,5	mA	red	390-6224-00
24 V DC	12,5	mA	yellow	390-6324-00
24 V DC	12,5	mA	green	390-6424-00
48 V DC	12,5	mA	red	390-6248-00
48 V DC	12,5	mA	yellow	390-6348-00
48 V DC	12,5	mA	green	390-6448-00
Incandescent lamp T 5,5				
				
6 V	200	mA		301-0000-00
12 V	100	mA		302-0000-00
24 V	50	mA		303-0000-00
36 V	35	mA		304-0000-00
48 V	25	mA		305-0000-00
60 V	20	mA		306-0000-00
LED T 5,5				
				
approx. 1,8 V DC	20	mA	red	380-0200-00
approx. 2,1 V DC	20	mA	yellow	380-0300-00
approx. 2,2 V DC	20	mA	green	380-0400-00

Type				Part No.
Multi-LED T 5,5 (6 chips)				
with built-in protective diode				
6 V DC	45	mA	red	380-6206-00
6 V DC	45	mA	yellow	380-6306-00
6 V DC	45	mA	green	380-6406-00
12 V DC	25	mA	red	380-6212-00
12 V DC	25	mA	yellow	380-6312-00
12 V DC	25	mA	green	380-6412-00
24 V DC	12,5	mA	red	380-6224-00
24 V DC	12,5	mA	yellow	380-6324-00
24 V DC	12,5	mA	green	380-6424-00
48 V DC	12,5	mA	red	380-6248-00
48 V DC	12,5	mA	yellow	380-6348-00
48 V DC	12,5	mA	green	380-6448-00
Series resistor				
to reduce lamp supply voltage of				
110 V	2,7	kΩ	to incand. lamp voltage 60 V/20 mA	300-0010-00
125 V	3,3	kΩ	to incand. lamp voltage 60 V/20 mA	300-0020-00
145 V	4,7	kΩ	to incand. lamp voltage 60 V/20 mA	300-0030-00
220 V	8,2	kΩ	to incand. lamp voltage 60 V/20 mA	300-0040-00
240 V	10	kΩ	to incand. lamp voltage 60 V/20 mA	300-0050-00
Capacitor				
to reduce lamp supply voltage of				
220 V	0,3	µF	to incand. lamp voltage 60 V/20 mA, 50 Hz	300-0090-00
Terminal block				
for mounting resistors or capacitors lengths: 62,5/125/187,5/250 mm width: 60 mm height: 15 mm				
5-part				300-0105-00
10-part				300-0110-00
15-part				300-0115-00
20-part				300-0120-00

For the building services I always put in SWISSTAC switches and buttons where I can. The lighting and ventilation in the design office, for instance, or the display panel in reception. And I've come to appreciate the simple and cleverly designed tools and other equipment. They mean I can install controls and indicators myself with no trouble; even change a bulb now and then.

Walter Vogt
Services Maintenance

Tools

Type	Part No.
Lens remover	
	
	300-0001-00
Lamp remover	
to fit lamps and LEDs T 5,5 and MG T 1¾	
	300-0002-00
Socket spanner	
for tightening the fixing nut on indicators and switches with terminal block removed.	
	300-0003-00
Jaw spanner	
for tightening the fixing nut, even in close-packed arrays, and removing the terminal block with metal frame.	
	300-0004-00
Contact element pliers	
for removing contact element from their metal frame. The pliers are used mainly with switch arrays.	
	300-0005-00
Flat-connector puller	
for detaching flat connectors from multi-connector housing No. 280-0000-00	
	300-0006-00

Type	Part No.
Punching tool	
for punching a hole of 16,2 mm diameter in aluminum sheet up to 3 mm thick, and in sheet steel up to 2 mm thick (except stainless).	
	300-0011-00
Punching tool	
for punching a hole of 16,2 x 22,2 mm in an aluminum sheet up to 3 mm thick, and in sheet steel up to 2 mm thick (except stainless). It is advisable to use the punching tool together with the hydraulic hand punch.	
	300-0015-00
Hydraulic hand punch	
incl. 2 bolts (ø 6,3 and ø 9,5 mm)	
for use with punching tools ø 16,2 mm and 16,2 x 22,2 mm	300-0016-00

Uniswitch: round the world

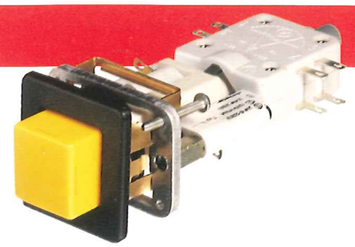
Uniswitch has put its trust in a large number of partner companies throughout the world.

In over 30 countries
appointed agents provide comprehensive, expert advice and guarantee authentic SWISSTAC service.

The Uniswitch products

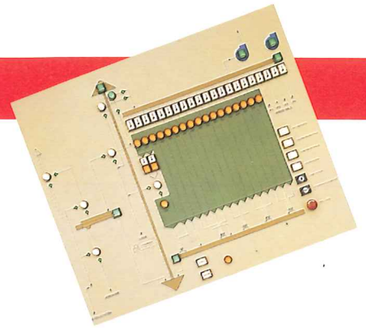
SWISSTAC: The switch for every purpose

The name SWISSTAC represents a complete and thoroughly developed range of switches of notably high performance and long life. The various components can be combined extremely easily on the building block principle. SWISSTAC switches ensure effective, user-friendly solutions for every requirement.



SCHWEITZER: The switch for special purposes

SCHWEITZER switches demonstrate their capabilities wherever the need is for reliability in hostile environments or unusually severe operating conditions. For example, in quarries, rolling mills, foundries and the steel industry. SCHWEITZER switches are available as control and indicator switches with or without illumination, as pushbutton, key and lever switches, as all-purpose rotary switches and as emergency stop switches. Each is assembled exactly to customer specifications and can be altered at any time.
The OPTIMAT semaphore is a speciality. This three-stage signalling device is used to indicate circuit conditions on the mimic panels in switchgear control rooms. Customized versions, e.g. for mosaic displays, are also available.



CONTROL PANELS: The tailor-made solution

Where complex installations have to be centrally controlled and monitored, Uniswitch designs control panels and circuit layouts tailored to the customer's requirements. With the dimension drawings and drilling plans provided, the client can very easily build his own control panels. Customers increasingly prefer to obtain ready-to-use panels and layouts direct from Uniswitch. The service is incidentally unique in the world of switch manufacture.

OEM (Original Equipment Manufacturers): The source for component products

Uniswitch has for many years been making components for large and not so large businesses, national telephone companies being one example. They value the long and thorough experience of producing switches, the ready adaptability to clients' wishes and the impeccable adherence to delivery deadlines.

Elektro-Apparatebau Olten AG

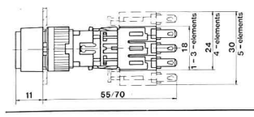
Tannwaldstrasse 88
P.O. Box
CH-4601 Olten

Phone 062-319 111
Telex 981 602
Fax 062-262 162

eao

Dimension drawings and drilling plans

Dimension drawings

M 1


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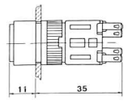

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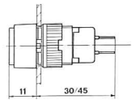

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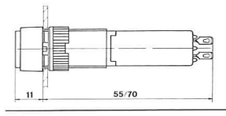

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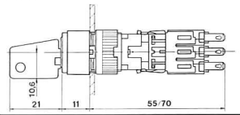

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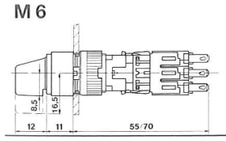

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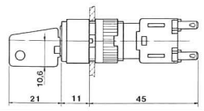

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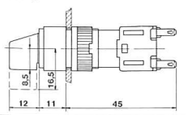

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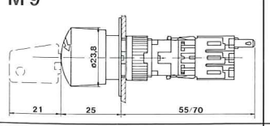

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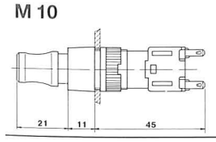

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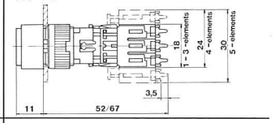

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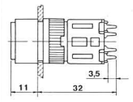

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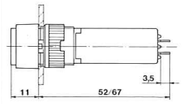

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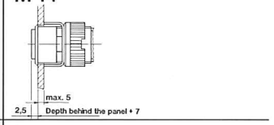

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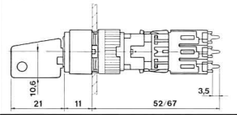

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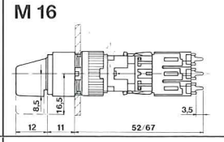

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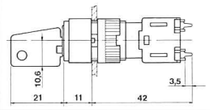

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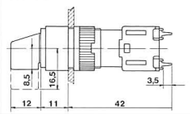

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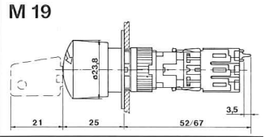

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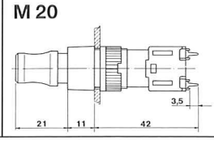
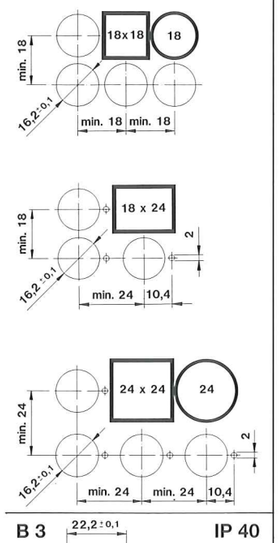


Drilling plans

B 1 IP 40


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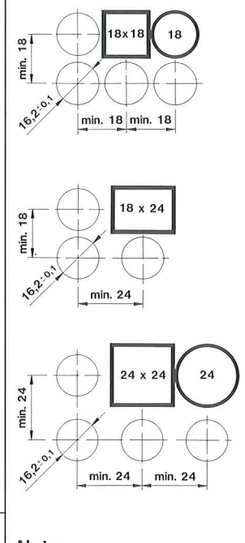

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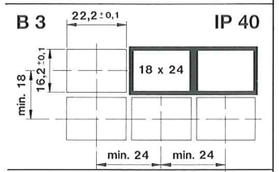

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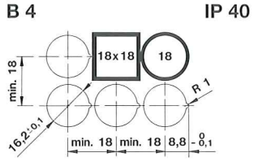

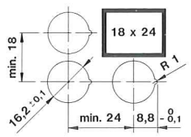

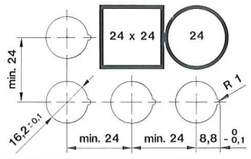

Note:
For versions to IP 65 we recommend location strip No. 260-0020-00 to prevent the bezel from twisting.

Subject to modification

Swisstac