### Schweitzel

#### Illuminated switches, pushbutton switches

( (

for front panel mounting







18 x 18



1-pole



2-poles



3-poles



4-poles

### Technical data

Switch system	each contact block has one double break, snap acting switching mechanism
Switch mode	momentary or alternate action, 1- to 4-poles
Contact material	silver/nickel gold-plated (hard-gold)
Operating travel	3.2 mm
Actuating force	> 1.5 N
Initial contact resistance (new)	< 10 mΩ
Breaking capacity (at ohmic load)	250 V / 5 A AC, 250 V / 0,2 A DC
Mechanical lifetime	> 2 x 10 <sup>6</sup> operations
Electrical lifetime (at ohmic load) 5 A / 250 V AC 4 A / 250 V AC 2 A / 250 V AC 1 A / 250 V AC	> 50 000 operations > 60 000 operations > 200 000 operations > 400 000 operations
Storage temperature	−40 °C up to +85 °C
Operating temperature	-40 °C up to +55 °C (with incandescent lamp) -40 °C up to +85 °C (without incandescent lamp)
Vibration resistance	IEC 68-2-6 test Fc, details on request
Insulation resistance	> $10^4$ M $\Omega$ 500 V DC according to IEC 341-1
Test voltage	> 4000 V, 50 Hz, 1 min between metal plate and terminals
Protection class	suitable for mounting in equipments with protection class II/IEC 536
Degree of protection	IP40 IEC 529 (front; when mounted) IP67 (with splash guard)
Climate category	GVF with lamp, GPF without lamp according to DIN 40040
Terminals	Max. diameter of wire 2 x 0.8 mm <sup>2</sup> Max. diameter of stranded cable 0,75 mm <sup>2</sup>
Solderability	350 °C, 2 s, IEC 68-2-20, test Ta, method 2
Soldering heat resistance	350 °C, 10 s, IEC 68-2-20, test Tb, method 2

Availability: ex warehouse or prompt delivery

Standards and approvals SEV 1005, VDE 0630, SEMKO 124, CSA C22.2/14 UL 508, CEE 24











#### General description

The **S10** is a complete programme of illuminated pushbutton switches for front panel mounting (panel cutout 16 mm dia).

Lenses are available in the following forms: rectangular 18 x 24 mm, square 18 x 18 mm and round 18 mm dia.

The standard design protects the front of the switches against accidental operation.

The pushbutton switches can be fitted with a device to prevent accidental twisting. The switches have snap action elements and are available with 1-4 contact blocks.

Gold-plated contacts are standard and are suitable for both, low-current use and standard applications.

Each contact block can be used as N/C or N/O or change-over contact (for change-over contact ext. connection between terminals 2 and 4).

Contacts in one section must have the same polarity.

The 4 tin-plated terminals of each block are absolutely flux-proof. The lenses of the S10 range are available in 11 different colours and can be illuminated either by midget-groove T 13/4 incandescent lamps or LED's.

The switching positions of the alternate version of the pushbutton switches are always indicated by the position of the lens.

When using neon lamps with external resistor ≤ 250 V~, please consider relevant standards and approvals.

#### Approvals:

SEV-Approval VDE-Certificate No. 95.551978.02 No. 93285 ÜG

UL-Recognition No F 172884 CSA-Certification No. LR 96746-2

SEMKO-Approval No. 9544108 01

temperature resistant thermoplastic, contact housing moulded in electrical high-grade thermosetting plastic current-carrying parts: Cu-alloys

Materials

### \_Schweitzer

# Illuminated switches pushbutton switches

Case colour black

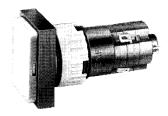
Standards and approvals SEV 1005, VDE 0630, SEMKO 124, CSA C22.2/14 UL 508, CEE 24

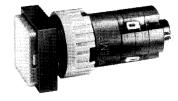




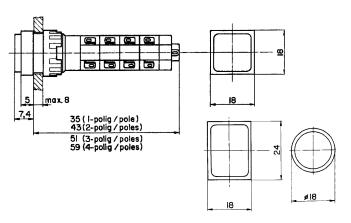


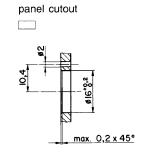


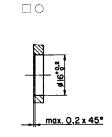












panel cutout

Order No. for S10 without lenses, lamps etc., accessories see page 5-7

Description				ontact diagram (button not de- essed) for change-over contact	Length A	A Order No. Shape of case			
				t. connections between 2 and 4		18 x 24	☐ 18 x 18	○ ø 18	
Illuminated pushbutton 1-pole, momentary action	1				35	0041.2301	0041.2311	0041.2321	
Illuminated pushbutton 2-pole, momentary action	2				43	0041.2302	0041.2312	0041.2322	
Illuminated pushbutton 3-pole, momentary action	3		me polarit	<b>4</b>	51	0041.2303	0041.2313	0041.2323	
Illuminated pushbutton 4-pole, momentary action	4		section must be same polarity	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	59	0041.2304	0041.2314	0041.2324	
Illuminated pushbutton 1-pole, alternate action		1	section n		35	0041.2351	0041.2361	0041.2371	
Illuminated pushbutton 2-pole, alternate action		2	Contacts in one	23 1 2 3 1 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	43	0041.2352	0041.2362	0041.2372	
Illuminated pushbutton 3-pole, alternate action		3	Conta	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	51	0041.2353	0041.2363	0041.2373	
Illuminated pushbutton 4-pole, alternate action		4		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	59	0041.2354	0041.2364	0041.2374	

## Series 10

### Signal lamps

for panel mounting

Standards and approvals SEV 1060, VDE 0710, SEMKO 103, UL 508, CSA C 22.2-14

















- Holders **S10** for interchangeable incandescent lamps and LED's (T1³/4 Midget Groove)
- Available for voltages 6.3 V, 14 V, 28 V, 48 V and 60 V
- Technical data of incandescent and LED's see page 5
- Case colour black
- Combination terminals for solder or PCB mounting
- Accessories for lamp holders have to be ordered separately.

#### • Approvals:

SEV-Approval VDE-Mark SEMKO-Approval UL-Recognition CSA-Certification No. 91.550698.01 No. 42343

No. 8410021 No. E 73407

No. LR 47016

#### Technical data

Lamp holder	incandescent lamp 1,2 W or LED T 13/4 Midget-Groove
Mounting	front panel or PCB
Mounting hole	16,2 mm
Connections	combination of solding and PCB version 0,7 x 0,5 mm
Material	body: thermoplastic resistant of temperature current-carrying parts, CU-alloy
Degree of protection	IP40 (mounted from the front side)
Storage temperature	−55 +100 °C
Operating temperature	−25 +85 °C
Solderability	350 °C, 2 s, IEC 68-2-20, test ta method 2
Soldering heat resistance	350 °C, 10 s, IEC 68-2-20, test tb method 2



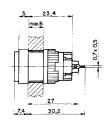














Terminals

#### Order No.

Socket	ø 18 mm	Socket	□18 x 18 mm	Socket
0035.5521		0035.5511		0035 5501

Order No.

### Alarm banel mounting

for front panel mounting







81 x 81 🗌 18 x 24

- $\bullet$  Acoustic alarm with front dimensions  $\bullet$  Available for voltages 6 V, 12 V, and 24 V
- Lens standard black with white legend

#### Technical data

350 °C, 10 s, IEC 68-2-20, test Tb method 2	Soldering heat resistance
350 °C, 2 s, IEC 68-2-20, test Ta method 2	Solderability
-25 +85 °C	Ambient operating temperature
O∘ 00t + 55 –	Storage temperature
IP40 IEC 529 (front; when mounted) IP67 (with splash guard; sound level < 84 dB)	Degree of protection
body: femperature resistant thermoplastic current-carrying parts: Cu-alloys	alsiretiM
combined solder-/PCB terminals 0, x 7,0 slsminals 40-q-	Zerminals
mm ðt	Panel cutout
front panel or PCB	gniinuoM
DC: S300 Hz / AC: power system	Sound frequency
m f,0 ts 8b 48	Sound level
səh	Pole-reversal protection
Am £f	Operating current
6 V, 12 V, 24 V (AC/DC) +/-10%	Operating voltage

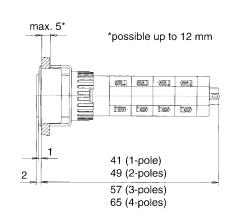
		mm 4S x 81 \( \triangle \) \(	Socket 0035.5006 0035.5012 0035.5012	mm 81 x 81 □ 6 V 12 t V 42	Socket 0035.5106 0035.5112	MM 8 1 0 V 51 V 42	Order No.  Socket  0035.5206  0035.5212  0035.5212
63X 61	alsnimat	panel cutout	91	panel cutout	81	panel cutout	91

#### **Accessories S10**

Flush mounting bezel

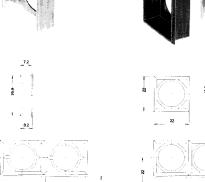


Flush mounting bezel incl. fixing clamp

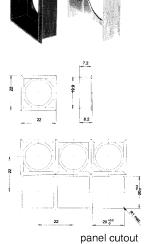


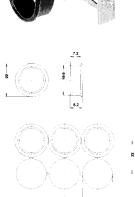
Fixing clamp (single)

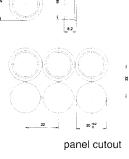




panel cutout







Order No. 0886.0017

0886.0018

Order No. 0886.0019

0886.0016

\_\_\_ 18 x 24

☐ 18 x 18

18

Anti-twisting plate

Insulating boot (black)



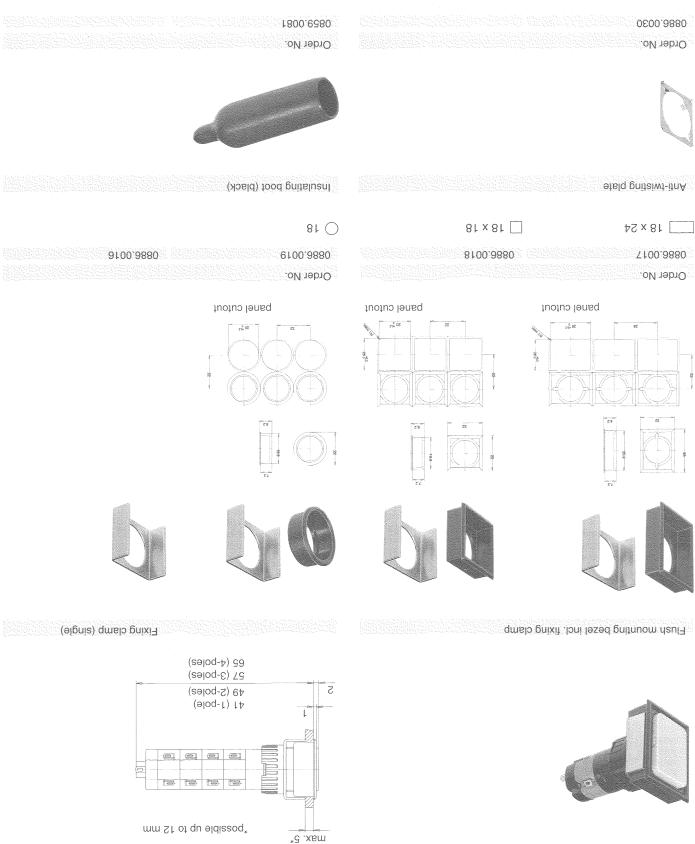


0886.0030



Order No. 0859.0081

Accessories 510 Flush mounting bezel



#### Availability: ex warehouse or prompt delivery

1280.6280





**Mounting key** Lamp extractor

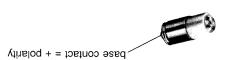
	100	029	300			10	16	58	0925.0112 yellow
30	100	999	300			10	91	28	0925.0111 green
	100	004	300			10	16	58	0925.0110 red
	100	029	S20	+82 ∘C	ე∘ 0∠+	12	91	15	wolley 9010.5290
30	100	999	S20	ot qu	ot qu	12	16	15	0925.0108 green
	100	002	S20	-52 °C	-S2 °C	91	91	15	ben 7010.3260
	100	029	S20			30	8	9	0925.0106 yellow
30	100	999	520			30	8	9	0925.0105 green
	100	002	520			30	8	9	ben 4010.3260
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intensity	current	jeudth	dissipation	temperat.	temperat.	current	voltage	voltage	
.nimu	Reverse	Peak wave	Power	Storage	Operating	Operating	Reverse	Operating	

0823.0622

Order No.

#### Order No.

Order No.



#### LED T 13/4 Midget Groove

must be clarified according to the international testing laboratories. Incandescent lamps with lower power consumption on request. Series resistors for incandescent lamps and capacitors for the reduction of lamp voltage available on request. The permission for other ratings The use of incandescent lamps > 60 V is limited by different standards.

4 000'8	4 000.01	438M8f.	Am 03	S4 Λ	9004.8190
4 000.1	۱،000 ل	30 MSCP	Am 0S	Λ 09	9004.8190
5,000 ₽	4 000' <del>2</del>	S0 MSCP	Am &S	Λ 87	4004.8160
4 000's	1 00001	S0 MSCP	Am 04	V 82	6004,6160
۷ OOO،۷	12,000 P	SO MSCP	Am 08	۸ ۲۱	2004.8190
52,000 P	20,000 P	40 MSCP	Am 00S	Λ ε.9	1004.8160
DC	. ⊃∀				
	əmitətil	brightness	consumption	voltage	

Order No.



Incandescent lamp T 13/4 Midget Groove

aloot gnitnuoM reb.e Incandescent lamps

Accessories 510



### Accessories 510

Protection shields

#### Protection shield against inadvertent operation

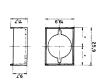








Protection shield against inadvertent operation (thermoplastic)



Splash guards IP64 (PVC)

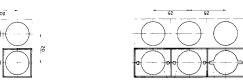
gnifnuom əlgnis 0100.3880

Order No.









2100.3880

Protection cap (lockable with lead seal)



£100.3880



Order No.

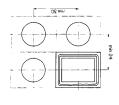








gnifnuom enil-ni 1100.8880



£000.3880 4000.3880 Order No.

Blanking plate black



Order No.

(81 Q) 7000.3880



1000.3880

Blanking plate black

(42 x 8f) 2000.0880



2000.3880

Order No.

Order No.

(81 x 81) 3000.3880

#### **Accessories S10**

Lenses / plate inserts







			$\circ$
Colours	18 x 24	18 x 18	ø 18
clear glass	0854.0581	0854.0601	0854.0621
clear red	0854.0582	0854.0602	0854.0622
clear green	0854.0583	0854.0603	0854.0623
clear yellow	0854.0584	0854.0604	0854.0624
clear blue	0854.0585	0854.0605	0854.0625
pearl	0854.0591	0854.0611	0854.0631
diffused red	0854.0592	0854.0612	0854.0632
diffused green	0854.0593	0854.0613	0854.0633
diffused yellow	0854.0594	0854.0614	0854.0634
diffused blue •	0854.0595	0854.0615	0854.0635
black •	0854.0596	0854.0616	0854.0636

<sup>·</sup> not recommended for illuminated switches

#### Order No. legend plate inserts

	18 x 24	18 x 18	ø 18		18 x 24	18 x 18	ø 18
	0854.0871	0854.0872	0854.0873	RECHTS	0854.1414	0854.1614	0854.1814
1	0854.1402	0854.1602	0854.1802	LINKS	0854.1415	0854.1615	0854.1815
0	0854.1403	0854.1603	0854.1803	VOR	0854.1416	0854.1616	0854.1816
1	0854.1404	0854.1604	0854.1804	zurück	0854.1417	0854.1617	0854.1817
$\Box$	0854.1405	0854.1605	0854.1805	START	0854.1418	0854.1618	0854.1818
( <sub>m</sub> )	0854.1406	0854.1606	0854.1806	STOP	0854.1419	0854.1619	0854.1819
EIN	0854.1407	0854.1607	0854.1807	ON	0854.1420	0854.1620	0854.1820
EIN	0854.1408	0854.1608	0854.1808	OFF	0854.1421	0854.1621	0854.1821
AUS	0854.1409	0854.1609	0854.1809	MARCHE	0854.1422	0854.1622	0854.1822
AUF	0854.1410	0854.1610	0854.1810	ARRET	0854.1423	0854.1623	0854.1823
ZU	0854.1411	0854.1611	0854.1811	-			
АВ	0854.1412	0854.1612	0854.1812	_			
HALT	0854.1413	0854.1613	0854.1813				

The white / translucent legend plate with black inscriptions use only with clear glass lenses.

Other legends on plate inserts available on request. Availability: ex warehouse or prompt delivery

### **Key switches EMS**

for panel mounting precision-machined barrel KARA micro-E 1 N.O.



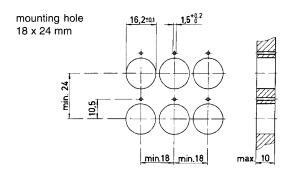
Standards and approvals SEV 1005, VDE 0630, CSA C 22.2/14, UL 508, CEE 24

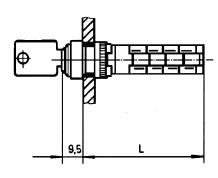




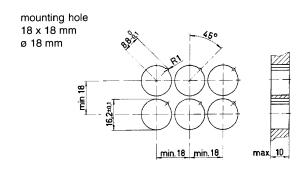
#### Approvals:

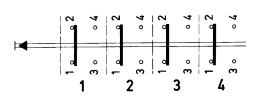
SEV-Approval No. 89.551901.01
VDE-Certificate No. 04
UL-Recognition No. E 118787
CSA-Certification No. LR 73360





L = see page 9





#### Technical data

Switching mechanism	snap contacts with minimum bounce and optimum self-cleaning characteristics
Contact blocks	normally 1 N.C. and 1 N.O.
Contact material	hard silver, 5 μm hard gold-plated
Initial contact resistance (new)	typically 5 m $\Omega$
Breaking capacity	5 A, 250 V AC (cos φ 0,7)
Mechanical lifetime	ca. 2 x 10 <sup>6</sup> operations
Electrical lifetime	ca. 7 x 10 <sup>4</sup> operations (cos $\varphi$ 0,7)
Ambient temperature	-30 °C up to +80 °C
Acceleration	10 g in all three dimensions
Vibration resistance	IEC 68-2-6 test Fc details on request
Degree of protection	IP 40 IEC 529
Terminals	stranded cable 2 x 1 mm <sup>2</sup> wire 4 x 0.75 mm <sup>2</sup>
Materials	temperature resistant thermoplastic, contact housing

Availability: ex warehouse or prompt delivery

temperature resistant thermoplastic, contact housing moulded in electrical high-grade thermosetting plastic current-carrying parts Cu-alloy

### Key switches 510

2EV 1005, VDE 0630, CSA C 22.2/14, Standards and approvals

**NF 208' CEE 54** 

Order No.

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		•				•		•			•	2872.1400
			•				•	•			•	1872.1400
		•				•			•		•	2772.1400
			•				•		•		•	1775.1400
		•				•				•	•	2972.1400
		ABOUT A	•				•			•	(mm 8f ø) ○	1972,1400
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		•				•		•			•	2372.1400
			•			1	•	•			•	1575,1400
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			•				•	•			•	1272.1400
		•				•			•		•	2175.1400
			•				•		•		•	1172.1400
		•				•				•	•	2072.1400
			•				•			•	•	1075.1400
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(uot on stock) Execution with 3 and 4 contact elements available

Mounting key (metal) Order No. 0853.0654







for metal nut only



### Auxiliary Devices - Component NKCK7.E172884

Previous Page **Questions?**  Print-friendly version

Page Bottom

### Auxiliary Devices - Component

See General Information for Auxiliary Devices - Component

E172884

2430 MELLINGEN' SMILSEKTYND **TAGERHARDSTRASSE 90** SCHWEITZER SCHALTSYSTEME AG

**Pilot lights.** Series 10 followed by 0035, followed by 55, followed by 01, 11, or 21.

· 1/2 followed by 21 thru 24 or followed by 51 thru 54 or followed by 61 thru 64 or followed by 71 thru Series 10 followed by 0041, followed by .23 followed by 01 thru 04 or followed by 11 thru 14 or

Marking: Company name and type designation.

Last Updated on 2004-01-27

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