Schweitzer

Illuminated switches, pushbutton switches

CE

for front panel mounting







18 x 24

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 ⁶ 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 ² Max. diameter of stranded cable 0,75 mm ²
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 No. 95.551978.02 UL-Recognition No. E 172884 VDE-Certificate No. 93285 ÜG 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

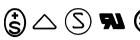
Materials

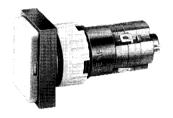
Schweitzer Series 10

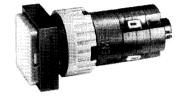
Illuminated switches pushbutton switches

Case colour black

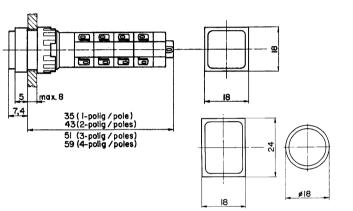
Standards and approvals SEV 1005, VDE 0630, SEMKO 124, CSA C22.2/14 UL 508, CEE 24

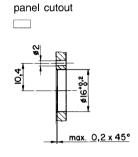


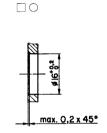












panel cutout

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

Description	Туре	Туре		ontact diagram (button not de- essed) for change-over contact	Length A	Order No. Shape of cas	se	
			ex	t. connections between 2 and 4	[mm]	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	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	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			35	0041.2351	0041.2361	0041.2371
Illuminated pushbutton 2-pole, alternate action		2	Contacts in one		43	0041.2352	0041.2362	0041.2372
Illuminated pushbutton 3-pole, alternate action		3	Cont		51	0041.2353	0041.2363	0041.2373
Illuminated pushbutton 4-pole, alternate action		4	_		59	0041.2354	0041.2364	0041.2374

Signal lamps

for panel mounting

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

















- Holders \$10 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				





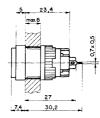




Panel cutout









Terminals ao—⊗—o b

Order No.

Socket 0035.5521 ø 18 mm

Socket 0035.5511

□18 x 18 mm

Order No.

Socket 0035.5501 ☐ 18 x 24 mm

Alarm buzzer

for front panel mounting







- Acoustic alarm with front dimensions
- Available for voltages 6 V, 12 V, and 24 V
- Lens standard black with white legend
- 18
- ☐ 18 x 18

18 x 24

Technical data

Operating voltage	6 V, 12 V, 24 V (AC/DC) +/-10%				
Operating current	13 mA				
Pole-reversal protection	yes				
Sound level	84 dB at 0,1 m				
Sound frequency	DC: 2300 Hz / AC: power system				
Mounting	front panel or PCB				
Panel cutout	16 mm				
Terminals	combined solder-/PCB terminals 0,7 x 0,5 mm				
Materials	body: temperature resistant thermoplastic current-carrying parts: Cu-alloys				
Degree of protection	IP40 IEC 529 (front; when mounted) IP67 (with splash guard; sound level < 84 dB)				
Storage temperature	−55 + 100 °C				
Ambient 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				





panel cutout











Order No.

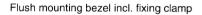
Socket	ø 18 mm	Socket	□18 x 18 mm
0035.5206	6 V	0035.5106	6 V
0035.5212	12 V	0035.5112	12 V
0035.5224	24 V	0035.5124	24 V

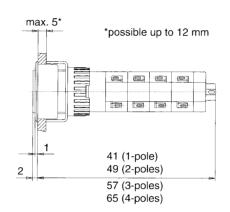
Order No.

Socket	☐ 18 x 24 mm	
0035.5006	6 V	
0035.5012	12 V	
0035.5024	24 V	

Flush mounting bezel

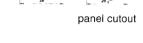




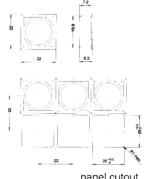


Fixing clamp (single)



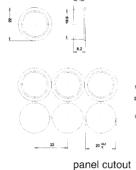


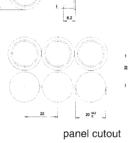




panel cutout







Order No. 0886.0017

0886.0018

] 18 x 24

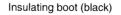
☐ 18 x 18

Order No. 0886.0019

0886.0016

 \bigcirc 18







Order No. 0886.0030

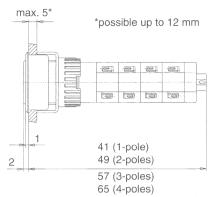


Order No. 0859.0081

Flush mounting bezel

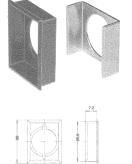


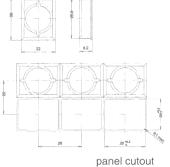




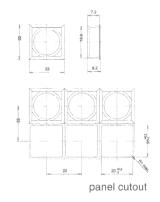
Flush mounting bezel incl. fixing clamp

Fixing clamp (single)

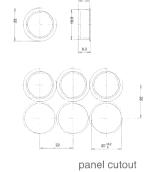












Order No. 0886.0017	
18 x 24	□ 18 x 18

Order No. 0886.0019 0886.0016

Insulating boot (black)



Anti-twisting plate

Order No. 0886.0030



Order No. 0859.0081

Incandescent lamps LED's Mounting tools

Incandescent lamp T 13/4 Midget Groove



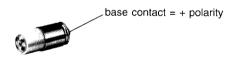
Order No.

	voltage	consumption	brightness	lifetime		
		·		AC -	DC	
0913.4001	6.3 V	200 mA	.40 MSCP	50'000 h	25'000 h	
0913.4002	14 V	80 mA	.20 MSCP	15'000 h	7'000 h	
0913.4003	28 V	40 mA	.20 MSCP	10'000 h	5'000 h	
0913.4004	48 V	25 mA	.20 MSCP	5'000 h	2'000 h	
0913.4005	60 V	20 mA	.30 MSCP	1'000 h	1'000 h	
0913.4006	24 V	50 mA	.18 MSCP	10'000 h	5'000 h	

The use of incandescent lamps > 60 V is limited by different standards.

Series resistors for incandescent lamps and capacitors for the reduction of lamp voltage available on request. The permission for other ratings must be clarified according to the international testing laboratories. Incandescent lamps with lower power consumption on request.

LED T 13/4 Midget Groove



Order No.

	Operating	Reverse	Operating	Operating	Storage	Power	Peak wave		Lumin.
	voltage	voltage	current	temperat.	temperat.	dissipation	length	current	intensity
	U _B	U _R	∣ I _F	°C	°C	P _{tot}	Λ peak	I _R	l,
	[V]	[V]	[mA]			[mW]	[nm]	[µA]	[mcd]
0925.0104 red	6	8	30			250	700	100	7
0925.0105 green	6	8	30			250	555	100	30
0925.0106 yellow	6	8	30			250	570	100	22
_0925.0107 red	12	16	15	-25 °C	-25 °C	250	700	100	7
0925.0108 green	12	16	15	up to	up to	250	555	100	30
0925.0109 yellow	12	16	15	+70 °C	+85 °C	250	570	100	22
0925.0110 red	28	16	10			300	700	100	7
0925.0111 green	28	16	10			300	555	100	30
0925.0112 yellow	28	16	10			300	570	100	22

Lamp extractor



Order No.

0853.0621

Availability: ex warehouse or prompt delivery

Mounting key



Order No.

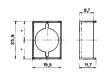
0853.0622



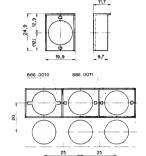
Protection shields

Protection shield against inadvertent operation (thermoplastic)









Protection shield against inadvertent operation











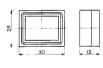
Order No.

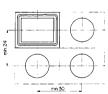
0886.0010 single mounting

0886.0011 in-line mounting

Splash guards IP64 (PVC)













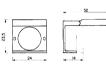
Order No.

0886.0012

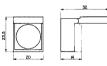
0886.0013

Protection cap (lockable with lead seal)









Order No.

0886.0002

0886.0001

Blanking plate black



Order No.

0886.0005 (18 x 24)

I

0886.0006 (18 x 18)

Availability: ex warehouse or prompt delivery

Order No.

0886.0004

0886.0003

Blanking plate black



Order No.

0886.0007 (Ø 18)

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

[·] not recommended for illuminated switches

Order No. legend plate inserts

	18 x 24	18 x 18	ø 18		18 x 24	18 x 18
	0854.0871	0854.0872	0854.0873	RECHTS	0854.1414	0854.1614
1	0854.1402	0854.1602	0854.1802	LINKS	0854.1415	0854.1615
0	0854.1403	0854.1603	0854.1803	VOR	0854.1416	0854.1616
I	0854.1404	0854.1604	0854.1804	ZURÜCK	0854.1417	0854.1617
\Diamond	0854.1405	0854.1605	0854.1805	START	0854.1418	0854.1618
(_w)	0854.1406	0854.1606	0854.1806	STOP	0854.1419	0854.1619
EIN	0854.1407	0854.1607	0854.1807	ON	0854.1420	0854.1620
EIN	0854.1408	0854.1608	0854.1808	OFF	0854.1421	0854.1621
AUS	0854.1409	0854.1609	0854.1809	MARCHE	0854.1422	0854.1622
AUF	0854.1410	0854.1610	0854.1810	ARRET	0854.1423	0854.1623
ZU	0854.1411	0854.1611	0854.1811			
АВ	0854.1412	0854.1612	0854.1812			
HALT	0854.1413	0854.1613	0854.1813			

0854.1416	0854.1616	0854.1816	
0854.1417	0854.1617	0854.1817	
0854.1418	0854.1618	0854.1818	
0854.1419	0854.1619	0854.1819	
0854.1420	0854.1620	0854.1820	
0854.1421	0854.1621	0854.1821	
0854.1422	0854.1622	0854.1822	
0854.1423	0854.1623	0854.1823	

ø 18

0854.1814

0854.1815

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.



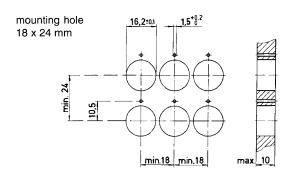
Standards and approvals SEV 1005, VDE 0630, CSA C 22.2/14, UL 508, CEE 24

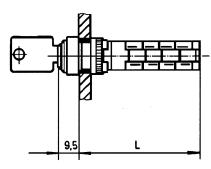




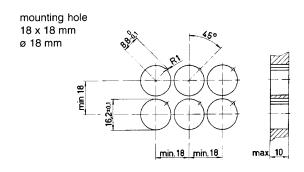
Approvals:

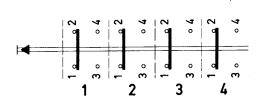
SEV-Approval No. 89.551901.01 **VDE-Certificate** No. 04 No. E 118787 **UL-Recognition** No. LR 73360 **CSA-Certification**





L = see page 9





moulded in electrical high-grade thermosetting plastic

current-carrying parts Cu-alloy

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 mΩ				
Breaking capacity	5 A, 250 V AC (cos φ 0,7)				
Mechanical lifetime	ca. 2 x 10 ⁶ operations				
Electrical lifetime	ca. 7 x 10 ⁴ operations (cos φ 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 ² wire 4 x 0.75 mm ²				
Materials	temperature resistant thermoplastic, contact housing				

Key switches S10

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







Order No.

	Flange	Key removable positions 1			Number of contact elements (1 N.C. + 1 N.O.)				Length L from flange [mm]			
	(18 x 24 mm)	(Impulse)			1	2	3	4			52,5	61,0
0041.2701	•	•			•				•			,
0041.2702	•	•				•				•		
0041.2711	•		•		•				•			
0041.2712	•		•			•				•		
0041.2721	•			•	•				•			
0041.2722	•			•		•				•		
	□ (18 x 18 mm)				i							
0041.2731	• ` '	•			•				•			
0041.2732	•	•				•				•		
0041.2741	•		•		•				•			
0041.2742	•		•			•				•		
0041.2751	•			•	•				•			
0041.2752	•			•		•				•		
				*								
	○ (ø 18 mm)					i	į					
0041.2761	•	•			•				•	ĺ		
0041.2762	•	•				•				•		
0041.2771	•		•		•				•			
0041.2772	•		•			•				•		
0041.2781	•			•	•				•			
0041.2782	•			•		•				•		
		key positions	positions		inclusive: - 1 key - 1 anti-rotation washer - 1 thermoplastic nut (metal nut if required)							
		1 off	:									

Execution with 3 and 4 contact elements available (not on stock)

Mounting key (metal) Order No. 0853.0654



for metal nut only

Spare key Order No. 0886.0020





NKCR2.E172884 Auxiliary Devices - Component

Page Bottom

Print-friendly version

Questions?

Previous Page

Auxiliary Devices - Component

See General Information for Auxiliary Devices - Component

SCHWEITZER SCHALTSYSTEME AG

E172884

TAGERHARDSTRASSE 90 5430 WETTINGEN, SWITZERLAND

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

Series 10 followed by 0041, followed by .23 followed by 01 thru 04 or followed by 11 thru 14 or followed by 21 thru 24 or followed by 51 thru 54 or followed by 61 thru 64 or followed by 71 thru 74.

Marking: Company name and type designation.

<u>Last Updated</u> on 2004-01-27

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Products	Components	for Canada	

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