

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 $18 \times 24 \mathrm{~mm}$, square $18 \times 18 \mathrm{~mm}$ 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 $1^{3 / 4}$ 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 $\leq \mathbf{2 5 0}$ V $\sim$, 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. 954410801 |  |  |

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 | $>1.5 \mathrm{~N}$ |
| Initial contact resistance (new) | $<10 \mathrm{~m} \Omega$ |
| Breaking capacity (at ohmic load) | $\begin{aligned} & 250 \mathrm{~V} / 5 \mathrm{~A} \mathrm{AC}, \\ & 250 \mathrm{~V} / 0,2 \mathrm{~A} \mathrm{DC} \end{aligned}$ |
| Mechanical lifetime | $>2 \times 10^{6}$ operations |
| $\begin{aligned} & \text { Electrical lifetime (at ohmic load) } \\ & 5 \mathrm{~A} / 250 \vee \mathrm{AC} \\ & 4 \mathrm{~A} / 250 \vee \mathrm{AC} \\ & 2 \mathrm{~A} / 250 \vee \mathrm{AC} \\ & 1 \mathrm{~A} / 250 \mathrm{VC} \end{aligned}$ | $>50000$ operations <br> > 60000 operations <br> $>200000$ operations <br> $>400000$ operations |
| Storage temperature | $-40^{\circ} \mathrm{C}$ up to $+85^{\circ} \mathrm{C}$ |
| Operating temperature | $\begin{aligned} & -40^{\circ} \mathrm{C} \text { up to }+55^{\circ} \mathrm{C} \text { (with incandescent lamp) } \\ & -40^{\circ} \mathrm{C} \text { up to }+85^{\circ} \mathrm{C} \text { (without incandescent lamp) } \end{aligned}$ |
| Vibration resistance | IEC 68-2-6 test Fc, details on request |
| Insulation resistance | $>10^{4} \mathrm{M} \Omega 500 \mathrm{~V}$ DC according to IEC 341-1 |
| Test voltage | $>4000 \mathrm{~V}, 50 \mathrm{~Hz}, 1 \mathrm{~min}$ 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 $2 \times 0.8 \mathrm{~mm}^{2}$ <br> Max. diameter of stranded cable $0,75 \mathrm{~mm}^{2}$ |
| Solderability | $350{ }^{\circ} \mathrm{C}, 2 \mathrm{~s}$, IEC 68-2-20, test Ta, method 2 |
| Soldering heat resistance | $350^{\circ} \mathrm{C}, 10 \mathrm{~s}$, IEC $68-2-20$, test Tb, method 2 |
| Materials Availability: ex warehouse or prompt delivery | temperature resistant thermoplastic, contact housing moulded in electrical high-grade thermosetting plastic current-carrying parts: Cu-alloys |

## Illuminated switches pushbutton switches <br> Case colour black

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

## ( 5 ) $\triangle$ (S) 피 (1)


panel cutout

panel cutout
$\square \bigcirc$


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


Availability: ex warehouse or prompt delivery

Signal lamps
for panel mounting

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

## 



- Approvals:

| SEV-Approval | No. 91.550698 .01 |
| :--- | :--- |
| VDE-Mark | No. 42343 |
| SEMKO-Approval | No. 8410021 |
| UL-Recognition | No. E 73407 |
| CSA-Certification | No. LR 47016 |

No. LR 47016

- Holders S10 for interchangeable incandescent lamps and LED's ( $\mathrm{T} 1^{3 / 4}$ Midget Groove)
- Available for voltages $6.3 \mathrm{~V}, 14 \mathrm{~V}, 28 \mathrm{~V}, 48 \mathrm{~V}$ 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.


Technical data

| Lamp holder | incandescent lamp $1,2 \mathrm{~W}$ or LED T 1 $3 / 4$ Midget-Groove |
| :--- | :--- |
| Mounting | front panel or PCB |
| Mounting hole | $16,2 \mathrm{~mm}$ |
| Connections | combination of solding and PCB version $0,7 \times 0,5 \mathrm{~mm}$ |
| Material | body: thermoplastic resistant of temperature <br> current-carrying parts, CU-alloy |
| Degree of protection | IP40 (mounted from the front side) |
| Storage temperature | $-55 \ldots+100^{\circ} \mathrm{C}$ |
| Operating temperature | $-25 \ldots+85^{\circ} \mathrm{C}$ |
| Solderability | $350^{\circ} \mathrm{C}, 2 \mathrm{~s}$, IEC $68-2-20$, test ta method 2 |
| Soldering heat resistance | $350^{\circ} \mathrm{C}, 10 \mathrm{~s}$, IEC $68-2-20$, test tb method 2 |



Panel cutout

-18 -


Panel cutout




Terminals

## Order No.

| Socket $\quad \oslash 18 \mathrm{~mm}$ | Socket $\quad \square 18 \times 18 \mathrm{~mm}$ |
| :--- | :--- | :--- |
| 0035.5521 | 0035.5511 |

Order No.
Socket $\square 18 \times 24 \mathrm{~mm}$0035.5501

## Availability: ex warehouse or prompt delivery




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## Accessories S10

Flush mounting bezel


Flush mounting bezel incl. fixing clamp

panel cutout

Order No.
0886.0017
0886.0018$18 \times 18$

Anti-twisting plate


## Order No.

0886.0030


Fixing clamp (single)


Order No.
0886.0019
0886.0016

O 18

Insulating boot (black)


Order No.
0859.0081

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## Accessories S10

Lenses／plate inserts


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| Colours | $\mathbf{1 8 \times \mathbf { 2 4 }}$ | $\mathbf{1 8 \times 1 8}$ | $\boldsymbol{\varnothing 1 8}$ |
|  |  |  |  |
| clear glass | 0854.0581 | 0854.0601 | 0854.0621 |
| clear red | 0854.0582 | 08544.0602 | 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

|  | $18 \times 24$ | $18 \times 18$ | © 18 |  | $18 \times 24$ | $18 \times 18$ | ๑ 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 |
| I | 0854.1404 | 0854.1604 | 0854.1804 | Zurück | 0854.1417 | 0854.1617 | 0854.1817 |
| 0 | 0854.1405 | 0854.1605 | 0854.1805 | START | 0854.1418 | 0854.1618 | 0854.1818 |
| （ 7 In | 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 |  |  |  |  |
| $A B$ | 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 KArRA micro-E 1 N.O.

mounting hole $18 \times 24 \mathrm{~mm}$


L = see
page 9

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 |

mounting hole
$18 \times 18 \mathrm{~mm}$
$\varnothing 18 \mathrm{~mm}$

snap contacts with minimum bounce and optimum self-cleaning characteristics
normally 1 N.C. and 1 N.O.
hard silver, $5 \mu \mathrm{~m}$ hard gold-plated
typically $5 \mathrm{~m} \Omega$
$5 \mathrm{~A}, 250 \mathrm{~V}$ AC $(\cos \varphi 0,7)$
ca. $2 \times 10^{6}$ operations
ca. $7 \times 10^{4}$ operations $(\cos \varphi 0,7)$
$-30^{\circ} \mathrm{C}$ up to $+80^{\circ} \mathrm{C}$
10 g in all three dimensions
IEC 68-2-6 test Fc details on request
IP 40 IEC 529
stranded cable $2 \times 1 \mathrm{~mm}^{2}$
wire $4 \times 0.75 \mathrm{~mm}^{2}$
temperature resistant thermoplastic, contact housing moulded in electrical high-grade thermosetting plastic current-carrying parts Cu-alloy


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