safe solutions

## Safety switch

## Series SLK - with separate actuator

Position monitoring of guard locking

```
\Theta 31- i
\(\Theta\)
```

```\(-11-\quad 12\)
```

Operating diagram


ON OFF Actuating force: $\pm 15 \%$

Termination electromagnet with contact position E1/E3, E2 without current


E1/E3, E2 with current


Delivery status


Electrical data
Protection class
Contact elements

| Rated insulation voltage | $\mathrm{U}_{\mathrm{i}}$ | 250V |
| :---: | :---: | :---: |
| Conv. thermal current | $I_{\text {the }}$ | 2,5A |
| Utilization category |  | AC-15, $\mathrm{U}_{\mathrm{e}} / \mathrm{I}_{\mathrm{e}} 230 \mathrm{~V} / 2,5 \mathrm{~A}$ |
| Direct opening action | $\Theta$ | according to IEC/EN 60947-5-1, Annex K |
| Short-circuit protective device |  | 4 A gL |
| Electro magnets |  |  |
| Duty cycle |  | 100\% ED (at E1/E3; E2) |
| Temperature class |  | B ( $130^{\circ} \mathrm{C}$ ) |
| Inrush power consumption |  | 56VA (0,2s) |
| Permanent power consumption |  | 1,1VA |
| Switch operations permanent |  | 600/h |
| Operating voltage |  | 24V AC/DC |

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## Safety switch

## Mechanical data

| Enclosure |  | Thermoplastic GV (UL94-V0) |
| :---: | :---: | :---: |
| Cover |  | Thermoplastic GV (UL94-V0) |
| Actuating head |  | Thermoplastic GV / Zn-GD |
| Actuator |  | Separate actuator (St / PA) |
| Minimum actuating radius | $\mathrm{R}_{\text {min }}$ | 400 mm |
| Velocity for actuating | $\mathrm{V}_{\text {max }}$ | 0,5m/s |
| Extraction force |  | $\geq 27 \mathrm{~N}$ |
| Interlocking principle |  | Spring force |
| Unlocking |  | a) magnetic force |
|  |  | b) auxiliary release |
| Hold on force | $\mathrm{F}_{\text {zh }}$ | $\leq 1500 \mathrm{~N}$ acc. to GS-ET-19 |
| Ambient air temperature |  | $-25^{\circ} \mathrm{C} \ldots+70^{\circ} \mathrm{C}$ |
| Contact type |  | 4 NC |
| Switching principle |  | 4 slow make and break contact elements |
| Mechanical life |  | $1 \times 10^{6}$ switching cycles |
|  |  | (at max. 600 switch operations / h) |
| Assembly |  | $4 \times \mathrm{M} 5$ |
| Connection |  | Cage tension spring |
| Conductor cross-sections |  | $\leq 1,5 \mathrm{~mm}^{2}$ flexible |
| Cable entrance |  | $3 \times \mathrm{M} 20 \times 1,5$ |
| Weight |  | $\approx 0,30 \mathrm{~kg}$ |
| Installation position |  | Operator definable |
| Protection type |  | IP67 acc. to IEC/EN 60529 |

## Actuation

4 different actuating directions achievable by rotating the actuating head.
Changing between horizontal and vertical actuating direction by setting the actuating head in the requested direction.

| Standards | VDE 0660 T100, DIN EN 60947-1, IEC 60947-1 |
| :---: | :---: |
|  | VDE 0660 T200, DIN EN 60947-5-1, IEC 60947-5-1 |
|  | GS-ET-19 |
|  |  |
| EU Conformity | C |
|  |  |
| Approvals |  |
|  | BG |
|  | ${ }_{\text {c CSA }}$ us B300 (same polarity) |

## Notes

The degree of protection (IP code) specified applies solely to a property closed cover and the use of an equivalent cable gland with adequate cable.
The switch may not be used as a mechanical stop.
When power is removed from the electromagnet (solenoid) the safety guard will be in locked position.
The emergency release function is activated by rotating the rotary handle $90^{\circ}$ clockwise. The supplied key is necessary to reset the emergency release function.

