

## Datasheet - SVE2/SR/xxxoo/oo-24VDC

Key transfer system / SVE - Key selector switch - Interlocking equipment



- Thermoplastic enclosure
- coloured key heads
- Protection class IP65

(Minor differences between the printed image and the original product may exist!)

### Ordering details










|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type description | SVE2/SR/xxxoo/oo-24VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Article number           | SVE2/SR/xxxoo/oo-24VDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| EAN Code                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| notice                   | In the order/inquiry, the requested lock number "xxx" as well as the colours "oo/oo" of the key head must be specified (e.g. SVE2/SR/119RT/RT/119RT/RT-24VDC)!<br>The colour, which is indicated first after the lock number always is the key had half with the observation window for the lock number engraved on the key.<br>If no lock number is indicated in the order/inquiry, we will supply a lock number at our discretion.<br>The user must ensure that lock numbers are not assigned twice in a single plant (factory site)!<br>The user must ensure that no double key bit numbers are allocated on one site (company site)! |
| eCl@ss                   | 27-27-26-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

### Classification

|                                   |                                                                                                                        |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Standards                         | EN ISO 13849-1                                                                                                         |
| B10d Normally-closed contact (NC) | 100.000                                                                                                                |
| Mission time                      | 20 Years                                                                                                               |
| notice                            | $MTTF_d = \frac{B_{10d}}{0,1 \times n_{op}}$ $n_{op} = \frac{d_{ap} \times h_{cp} \times 3600 \text{ s/h}}{t_{cycle}}$ |

### Global Properties

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| Permanent light                      | Schlüssel-Wahlschalter                 |
| Standards                            | IEC/EN 60947-1, IEC 60947-5-1, EN 1088 |
| Compliance with the Directives (Y/N) | Yes                                    |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Number of key selector switch | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Active principle              | electromechanical                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Duty cycle                    | Magnet 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Materials                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| - Material of the housings    | Plastic, glass-fibre reinforced thermoplastic, self-extinguishing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| - Material of the contacts    | Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Housing coating               | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Enclosure color               | Black / Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Color                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| - Colour of the key grip      | oo/oo<br> Brown (BR)<br> yellow (GB)<br> red (RT)<br> Blue (BL)<br> White (WS)<br> Grey (GR)<br> green (GN)<br> Black (SW)<br>and all combinations resulting thereof |
| - Colour of the key           |  Silver                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Weight                        | 750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Key number                    | xxx                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Key selector switch position  | left, right                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Locking system                | Included in standard version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Mechanical data

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|                                  |                                                                               |
|----------------------------------|-------------------------------------------------------------------------------|
| Connection type                  | Screw connection                                                              |
| Cable section                    |                                                                               |
| - Min. Cable section             | 0,25                                                                          |
| - Max. Cable section             | 2.5                                                                           |
| Mechanical life                  | 100.000 operations                                                            |
| notice                           | All indications about the cable section are including the conductor ferrules. |
| Emergency unlocking device (Y/N) | No                                                                            |
| Manual release (Y/N)             | Yes                                                                           |
| Emergency release (Y/N)          | No                                                                            |

## Ambient conditions

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|                                  |                             |
|----------------------------------|-----------------------------|
| Ambient temperature              |                             |
| - Min. environmental temperature | 0                           |
| - Max. environmental temperature | +50                         |
| Protection class                 | IP65 / IP20 to IEC/EN 60529 |

## Electrical data

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|                                 |                                         |
|---------------------------------|-----------------------------------------|
| Design of control element       | Normally open contact (NO), Opener (NC) |
| Switching principle             | Creep circuit element                   |
| Number of auxiliary contacts    | 3                                       |
| Number of safety contacts       | 2                                       |
| Power to unlock                 | Yes                                     |
| Power to lock                   | No                                      |
| Rated control voltage           | 24                                      |
| Power consumption               | 8.5                                     |
| Rated impulse withstand voltage | 2.5                                     |
| Rated insulation voltage        | 250                                     |

|                      |                                          |
|----------------------|------------------------------------------|
| Thermal test current | 4 A                                      |
| Utilisation category | AC-15: 230 V / 4 A,<br>DC-13: 24 V / 4 A |
| Max. fuse rating     | 4 A gG D-fuse To DIN EN 60269-1          |
| notice               | NC contacts in series                    |

## ATEX

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|                                           |      |
|-------------------------------------------|------|
| Explosion protection categories for gases | None |
| Explosion protected category for dusts    | None |

## Dimensions

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|                          |     |
|--------------------------|-----|
| Dimensions of the sensor |     |
| - Width of sensor        | 96  |
| - Height of sensor       | 171 |
| - Length of sensor       | 144 |

## Included in delivery

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Key and triangular tool included in delivery (incl. 1 key for emergencies)

## notice - Operating principle

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see drawing: **Operating principle**

Key 1-3 in Pos. 1, magnet de-energised: key-operated switch locked, NC contacts closed, key not withdrawable  
 Key 1-3 in Pos. 1, magnet energised NC contact open: key-operated switch unlocked, NC contacts closed, key not withdrawable  
 Key 1-3 in Pos. 2, magnet energised NC contact open: key-operated switch unlocked, NC contacts open, key withdrawable

Triangular tool for manual release in Pos. 3: key-operated switch mechanically locked, magnet non-operational, NC contact open  
 Triangular tool for manual release in Pos.4: magnet operational

## Ordering code

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SVE(1)(2)(3)/(4)(5)(6)-(7)

**notice** **Not all variations can be supplied.  
The available order code used to convert the product part name.**

|         |                                             |
|---------|---------------------------------------------|
| (1)     |                                             |
| 1       | 1 Key selector switch                       |
| 2       | 2 Key selector switch                       |
| 3       | 3 Key selector switch                       |
| (2)     |                                             |
| without | Included in standard version Locking system |
| -Z/     | Central locking system-Locking system       |
| (3)     |                                             |
| without | Included in standard version Silver         |
| SR/     |                                             |
| (4)     |                                             |
| xxx     | Key number (n) 100 ... 999                  |
| (5)     |                                             |
| oo/oo   | Colour of the key grip<br>■ (BR)            |

- (GB)
- (RT)
- (BL)
- (WS)
- (GR)
- (GN)
- (SW)

and all combinations resulting thereof

**(6)**

*without*

Magnet: 1 Opener (NC) / 1 Normally open contact (NO)  
Key selector switch: 1 Opener (NC) / 1 Normally open contact (NO)

**-3OE**

Magnet: 1 Opener (NC) / 1 Normally open contact (NO)  
Key selector switch 2 Opener (NC) / 1 Normally open contact (NO)

**-W**

Magnet: 1 Opener (NC) / 1 Normally open contact (NO)  
Key selector switch 2 Opener (NC) / 1 Normally open contact (NO)

**(7)**

**24VDC**

U<sub>s</sub> 24 VDC

**24VAC**

U<sub>s</sub> 24 VAC

**115VAC**

U<sub>s</sub> 115 VAC

**230VAC**

U<sub>s</sub> 230 VAC

## Documents

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**Operating instructions and Declaration of conformity (da)** 2 MB, 25.09.2015

Code: mrl\_shgv-sve-svm\_da

**Operating instructions and Declaration of conformity (es)** 2 MB, 22.08.2016

Code: mrl\_shgv-sve-svm\_es

**Operating instructions and Declaration of conformity (jp)** 2 MB, 23.03.2017

Code: mrl\_shgv-sve-svm\_jp

**Operating instructions and Declaration of conformity (de)** 2 MB, 25.07.2016

Code: mrl\_shgv-sve-svm\_de

**Operating instructions and Declaration of conformity (fr)** 2 MB, 16.09.2016

Code: mrl\_shgv-sve-svm\_fr

**Operating instructions and Declaration of conformity (nl)** 2 MB, 08.08.2018

Code: mrl\_shgv-sve-svm\_nl

**Operating instructions and Declaration of conformity (en)** 2 MB, 25.07.2016

Code: mrl\_shgv-sve-svm\_en

**Operating instructions and Declaration of conformity (pt)** 2 MB, 23.08.2016

Code: mrl\_shgv-sve-svm\_pt

**Operating instructions and Declaration of conformity (cn)** 2 MB, 27.07.2017

Code: mrl\_shgv-sve-svm\_cn

**Operating instructions and Declaration of conformity (pl)** 2 MB, 22.11.2016

Code: mrl\_shgv-sve-svm\_pl

**Operating instructions and Declaration of conformity (it)** 2 MB, 02.09.2016

Code: mrl\_shgv-sve-svm\_it

**CCC certification (cn)** 2 MB, 29.10.2018

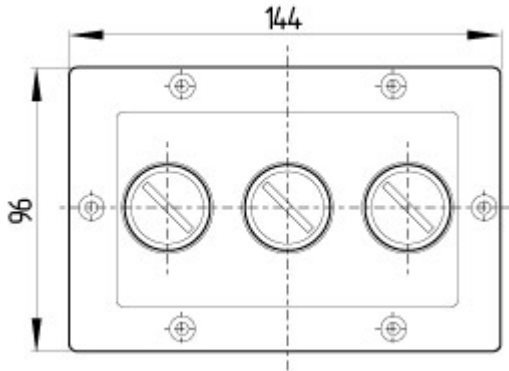
Code: q\_svep03

CCC certification (en) 2 MB, 29.10.2018

Code: q\_svep02

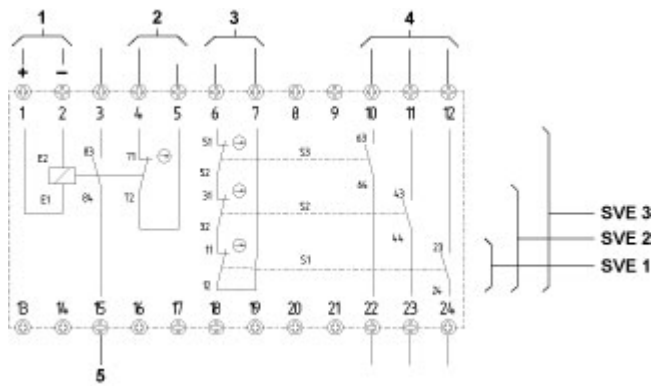
## Images

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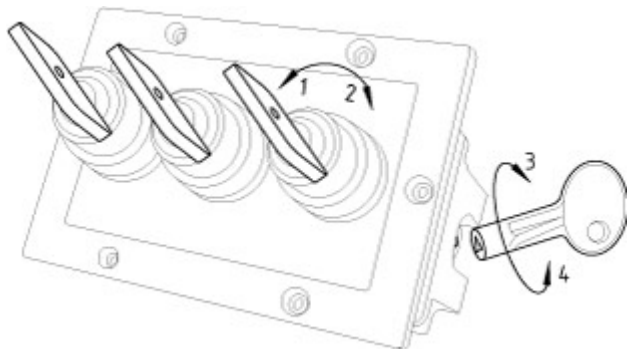
Dimensional drawing (basic component)

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Wiring example

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Operating principle

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